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Data on the Anadromous Arctic Charr, (*Salvelinus alpinus*) of Nauyuk Lake, Northwest Territories, 1974-1988

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65 1974 downstream 74
66 1974 upstream 75
67 1975 downstream 76
68 1975 upstream 77
69 1976 downstream 78
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71 1977 downstream 80
72 1977 upstream 81
73 1978 downstream 82
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76 1979 upstream 85

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78 1974 upstream 87
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82 1976 upstream 91
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84 1977 upstream 93
85 1978 downstream 94
86 1978 upstream 95
87 1979 downstream 96
88 1984 upstream 97
89 1988 upstream 98

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90 1975 upstream 99
91 1975 downstream 100
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93 1976 downstream 102
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95 1977 downstream 104
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111 upstream 1978 120

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ABSTRACT

Gyselman, E.C., and K.E. Broughton. 1991. Data on the anadromous Arctic charr(*Salvelinus alpinus*) of Nauyuk Lake, Northwest Territories, 1974-1988. Can. Data Rep.Fish. Aquat. Sci. 815: v + 125 p.

Anadromous Arctic charr (*Salvelinus alpinus*) from Nauyuk Lake, Northwest Territories, were studied from 1974 until 1988. Annual migrations of adult, juvenile and pre- and post-spawning charr were monitored. Length, weight, age and sex data are presented. Data on numbers of fish migrating, time spent at sea and time spent in freshwater are also presented.

Key words: growth; migrations; spawning; anadromous; population dynamics.

RÉSUMÉ

Gyselman, E.C., and K.E. Broughton. 1991. Data on the anadromous Arctic charr(*Salvelinus alpinus*) of Nauyuk Lake,Northwest Territories, 1974-1988. Can. Data Rep. Fish. Aquat. Sci. 815: v + 125 p.

L'omble arctique (*Salvelinus alpinus*) anadrome du lac Nauyuk, Territoires du Nord-Quest, a été étudié de 1974 à 1988. Les migrations des adultes, des juvéniles et des ombles avant et après le frai ont fait l'objet d'une surveillance. On présente des données sur la longueur, le poids, l'âge et le sexe de ces poissons. On présente également des données sur le nombre de poissons ayant participé aux migrations, le temps de séjour en mer et le temps de séjour en eau douce.

Mots-clés: croissance; migrations; frai; espèce anadrome; dynamique des populations.

INTRODUCTION

Arctic charr (Salvelinus alpinus) is an extremely important resource to the native people of northern Canada. As a subsistence resource, it feeds both man and dogs and it is one of the few commodities that can be utilized for commercial purposes either directly through commercial sale or indirectly through sport fishing operations. In spite of its importance, very little is known about the dynamics of the species, making management difficult and therefore, by necessity, conservative.

In the early 1970's, the Fisheries Research Board of Canada, now part of the Department of Fisheries and Oceans, realized that a better information base was needed to manage the charr resource more effectively. Consequently, the Arctic Charr Project was initiated. The mandate of the project was to study the life history and population dynamics of an unexploited charr 'stock'.

In 1973, a survey of river systems in the vicinity of Cambridge Bay in the central Canadian Arctic resulted in the site at Nauyuk Lake (68° 22'N, 107° 43'W) on the Kent Peninsula being selected for the study (Fig. 1). The research program began in 1974 and ran continuously until 1980. Specific parts of the program were conducted again in 1984 and 1988.

The Nauyuk Lake system proved to be a fortuitous choice for the study of anadromous Arctic charr. Because of the clear separation of specific stages of the life cycle in the system, detailed examination of the dynamics of the population could be made.

Three separate migrations take place each year in the Nauyuk Lake system (Fig. 2). The majority of the anadromous population migrates down the Nauyuk River into Parry Bay each spring. After spending 40 - 50 days feeding at sea, these fish move back into Nauyuk Lake to spend the winter.

While most of the charr migrate to sea each spring, 5% - 10% of the population, the pre-spawners, remain in freshwater and do not migrate to sea in the year that they spawn. All spawning in the Nauyuk Lake system takes place in Willow Lake (Fig. 2). Each spring the pre-spawners migrate up Willow Creek into Willow Lake. This spring migration is necessary because there is only enough water flow in Willow Creek during the spring melt to allow the passage of mature charr. The pre-spawners spend the summer in Willow Lake, spawn in the fall, over-winter and most then migrate back down Willow Creek the following spring. About 1% - 10% stay in Willow Lake for two years. Therefore, at the same time as the pre-spawners are migrating up Willow Creek each spring, the post-spawners from the previous year are migrating downstream. This spawning regime allows individual fish to spawn, at most, ever second year.

The third migration is by juvenile fish leaving Willow Lake (Fig. 2). Some of these fish are true "smolts" that then migrate down the Nauyuk River and to sea in the same year. Others are pre-smolts that may spend a year or more in Nauyuk Lake before making their first migration to sea. Mortality among both of these groups is extremely high (Johnson 1980).

An overview of the results from the Nauyuk Lake study are presented in Johnson (1980; 1989) and Gyselman (1984). The physical, hydrological, chemical and meteorological data collected during the Nauyuk Lake study have been presented in Gyselman and Mohr (1990). This report presents a summary of the biological data collected on the anadromous Nauyuk Lake Arctic charr.

MATERIALS AND METHODS

The migrations of charr in the Nauyuk Lake system provided an ideal opportunity to monitor the population. A wire mesh (12.7 mm X 12.7 mm openings) weir was constructed across the head of the Nauyuk River as soon as the river began to flow in the spring. The wire mesh used was fine enough to prevent the passage of all charr in the system. All charr caught in the weir were counted and 10% - 75% were measured for length and weight. In addition, "Floy" spaghetti or "Carlin" type oval tags with unique numbers were attached to some fish so that specific growth, mortality and fidelity could be monitored. Once the downstream run was complete, the weir was rebuilt to monitor the upstream migration. In most years there was a clear separation between the end of the downstream run and the beginning of the upstream run (Fig. 3).

The numbers of charr in the Nauyuk River migrations were too large to permit weighing and measuring each fish; therefore, only proportions of the fish were sampled (Table 1A). Usually, at least 50 fish·day^{-1} were sampled when the daily totals exceeded this number. These samples were taken at various times throughout the day and night to minimize any daily temporal effect. The figures presented give an estimate of the size distribution in the Nauyuk River runs. All charr were measured at Willow Creek. Length frequencies were pooled by sex because there is no reliable method of sexing charr without destructive sampling of the fish.

The migration of Arctic charr in the Nauyuk River was monitored from 1974 through 1979 and again in 1984 and 1988. From 1974 until 1978 both the upstream and downstream run were observed (Fig. 3). In 1979 only the downstream run was monitored and in 1984 and 1988 only the upstream runs were monitored. The data from the 1976 downstream run are incomplete because of ice conditions in Nauyuk Lake that prevented the installation of the weir until well after the run had started. Spring ice in Nauyuk Lake was a problem throughout the study. As a result some charr were able to pass through the counting fence when it was dameged by ice. Therefore, the total counts for the downstream migrations are underestimates.

The upstream and downstream migrations of pre-spawning and post-spawning charr in Willow Creek occurred simultaneously. Therefore, a two-way weir that could monitor both runs simultaneously was constructed each year at the head of Willow Creek. These migrations were monitored from 1975 through 1980. The duration of the migrations is shown in Fig. 4. Wire mesh of the same size used on the Nauyuk River weir was used at Willow Creek. After the upstream run was complete a hoop net constructed of nylon mesh (2 mm X 2 mm openings) was set in Willow Creek below the weir to catch juvenile fish that were small enough to pass downstream through the weir. The migration of these small juveniles did not begin until well after the run of pre-spawning fish was complete. Therefore, the hoop-net did not interfere with

upstream pre-spawners. With the exception of 1975, all pre- and post-spawning charr were tagged with "Floy" tags and smolts were tagged with "Carlin" tags.

With the exception of 1974, project staff conducted almost no destructive sampling. Most destructive samples came from the domestic harvest of the Inuit family that lived at the mouth of the Nauyuk River. Fork length (mm), round weight (nearest 10 g), sex, maturity state, stomach contents and parasite infections were recorded on these fish. Sagittal otolith were removed and stored dry for age determination. Age estimates were obtained by counting the rings on the whole otolith under a stereo microscope using reflected light and with the otoliths immersed in a solution of glycerine and water (Grainger 1953).

RESULTS

The large amount of data presented in this report may lead to some confusion about the chronological sequence of the program. Therefore, table 1A and 1B are provided to summarize the charr migrations and the fish sampled or harvested during the research program. The numbers presented are observed migration totals which may in some cases not be accurate totals. Discrepancies between observed and actual totals are explained in the text associated with the appropriate tables. Figures 3 and 4 graphically represent the temporal sequence of migrations for the Nauyuk River and Willow Creek 'monitored' during the program.

The annual variation in climatic conditions caused a large variation in the onset of the spring melt and the subsequent migration of charr (Fig. 3 and 4). In addition, the daily number of migrant fish was highly variable. Table 2 shows the total daily number of charr migrating downstream in the Nauyuk River. These figures are not absolute since each year some fish were able to bypass the weir early in the run when the weir was damaged by ice. In 1976, for example, bad ice conditions prevented the weir from being built until July 6, approximately two weeks after the run began.

Table 3 presents the total daily numbers of charr moving upstream in the Nauyuk River. Because the weir could be more securely installed in the late summer because of lower water levels, the upstream totals are probably close to the absolute totals.

The total daily numbers of charr migrating upstream and downstream in Willow Creek are presented in Tables 4 and 5, respectively. As with the downstream migration of charr in the Nauyuk River, annual variation in climatic conditions greatly influenced the start of these migrations (Fig. 4).

Tables 6-19 present the length frequency distributions for the Nauyuk River migrations from 1974 to 1988. In 1979, only the very beginning of the upstream run was monitored. Since only 16 fish were enumerated before the trap was removed, no data are presented. In 1984 and 1988, only the upstream runs were monitored (Tables 17 and 18). Mean fork length and round weight with standard deviations, Fulton's condition factor (Ricker 1975) for each length interval are given.

Tables 19-30 present the length frequency distributions for the Willow Creek charr. Mean fork length and round weight with standard deviations, Fulton's condition factor for each length interval are given. Attempts were made to measure all of the anadromous charr migrating up and down Willow Creek although occasionally only a length or weight could be obtained. This explains the small discrepancies between the totals in these tables and the totals presented in Tables 4 and 5. The number of spawning fish relative to the population size was surprisingly small. As a result we were very reluctant to destructively sample any spawning fish. Therefore, since post-spawning gonadal state could not be determined, the mean condition factors may include some fish that went into Willow Lake but did not spawn. Consequently, the mean condition factors presented may be overestimates of the true means for spawning fish.

The charr harvested by the local Inuit families were our main source of data on sexually related differences among the measured parameters. Tables 31-42 present the length frequency distributions of the harvested fish by downstream and upstream runs with the sexes pooled. Tables 43-52 present these same data broken down by sex. Not all fish were sexed and, therefore, some of the total numbers in these latter tables do not equal the totals in the tables with sexes combined. Most notably, the 1974 fish were not sexed. The 1974-1976, 1980 and 1984 data do not represent the total Inuit harvest. However, the 1977-1978 tables do present the total harvest and the 1979 table presents the total downstream harvest. The distribution of the Inuit harvest is biased towards larger fish because large mesh gill nets (14 cm stretched mesh) were used.

Tables 53-64 present the age-specific lengths, weights and condition factors. These data are broken down by sex in tables 65-76. All of the qualifiers associated with the Inuit harvest data that are outlined above also apply for these tables. Some mortality of juveniles occurred in the weir. The data from these fish has been pooled with the Inuit harvest so that the totals in Tables 53-76 may exceed those of the Inuit harvest alone.

The mean length, weight and condition factor of sampled fish for each day of the Nauyuk River runs are presented in Tables 77-89. These results should characterize the run as a whole.

Tables 90-101 present the mean daily length, weight and condition factor of charr in the Willow Creek migrations. With the exception of 1975, these data are for the total run.

The mean time at sea, downstream length and weight and upstream length and weight by length class are presented in Tables 102-106. These data only include tagged fish. Similarly Tables 107-111 show the same information for charr over-wintering in Nauyuk Lake.

Tables 112-116 present the mean number of days, by length interval, spent in Willow Lake during spawning runs. These tables also include the corresponding mean upstream lengths and weights and the mean downstream lengths and weights. The data for 1975 are not complete since not all pre-spawning charr were tagged. The second part of each table shows the same data for fish that spent two years in Willow Lake. Table 116 does not include the spawners that spent two years in Willow Lake because the run was not monitored in 1981.

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The success of the Arctic Charr Project is due to the leadership and dedication of Dr. Lionel Johnson. His life long commitment to the Arctic is reflected in this work. We value both his scientific expertise and his friendship.

We would also like to thank Grace Decterow for typing the manuscript and patiently making the many corrections and alterations. J. Babaluk patiently reviewed the manuscript including each of the tables.

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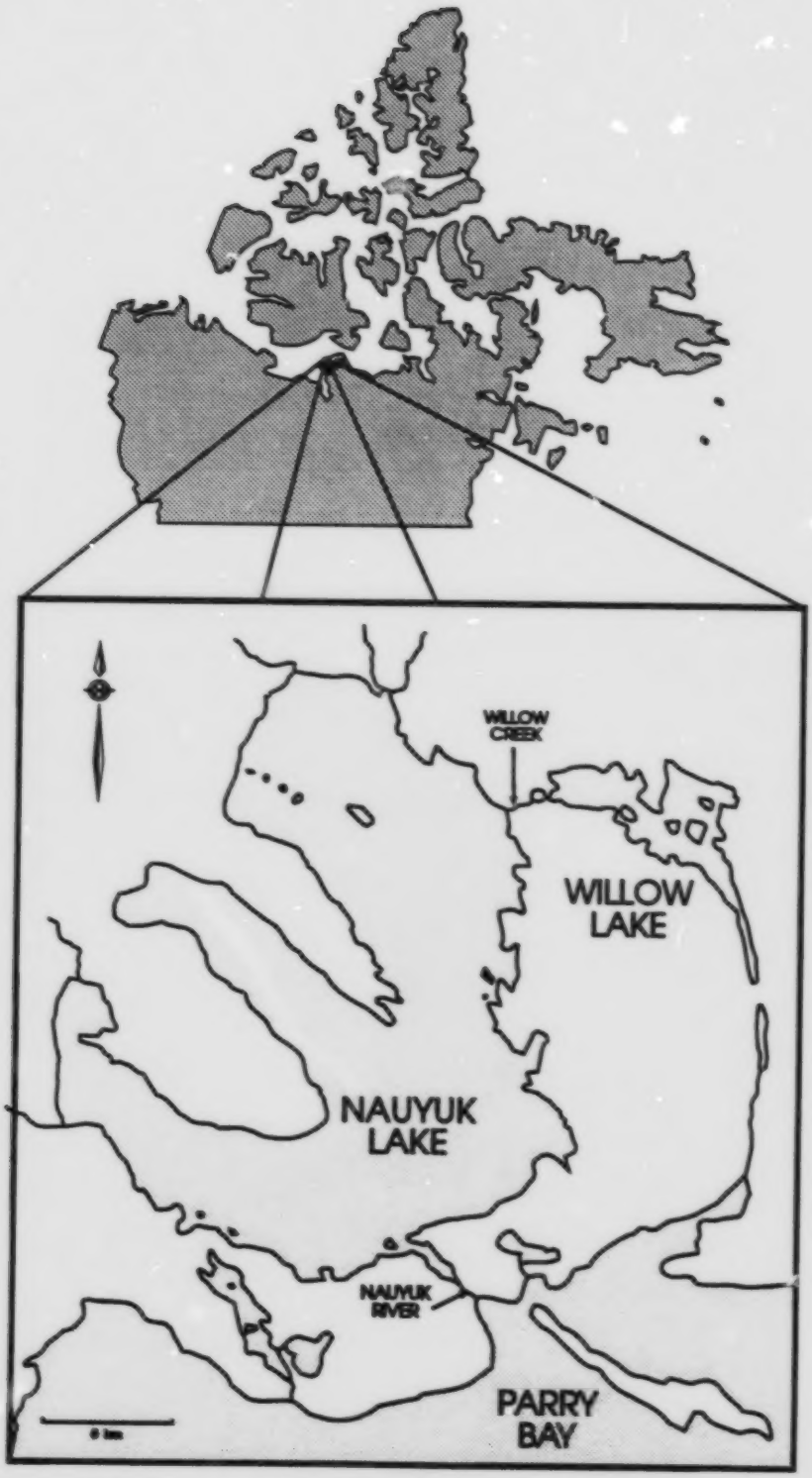

Figure 1. Map of Nauyuk Lake study area.

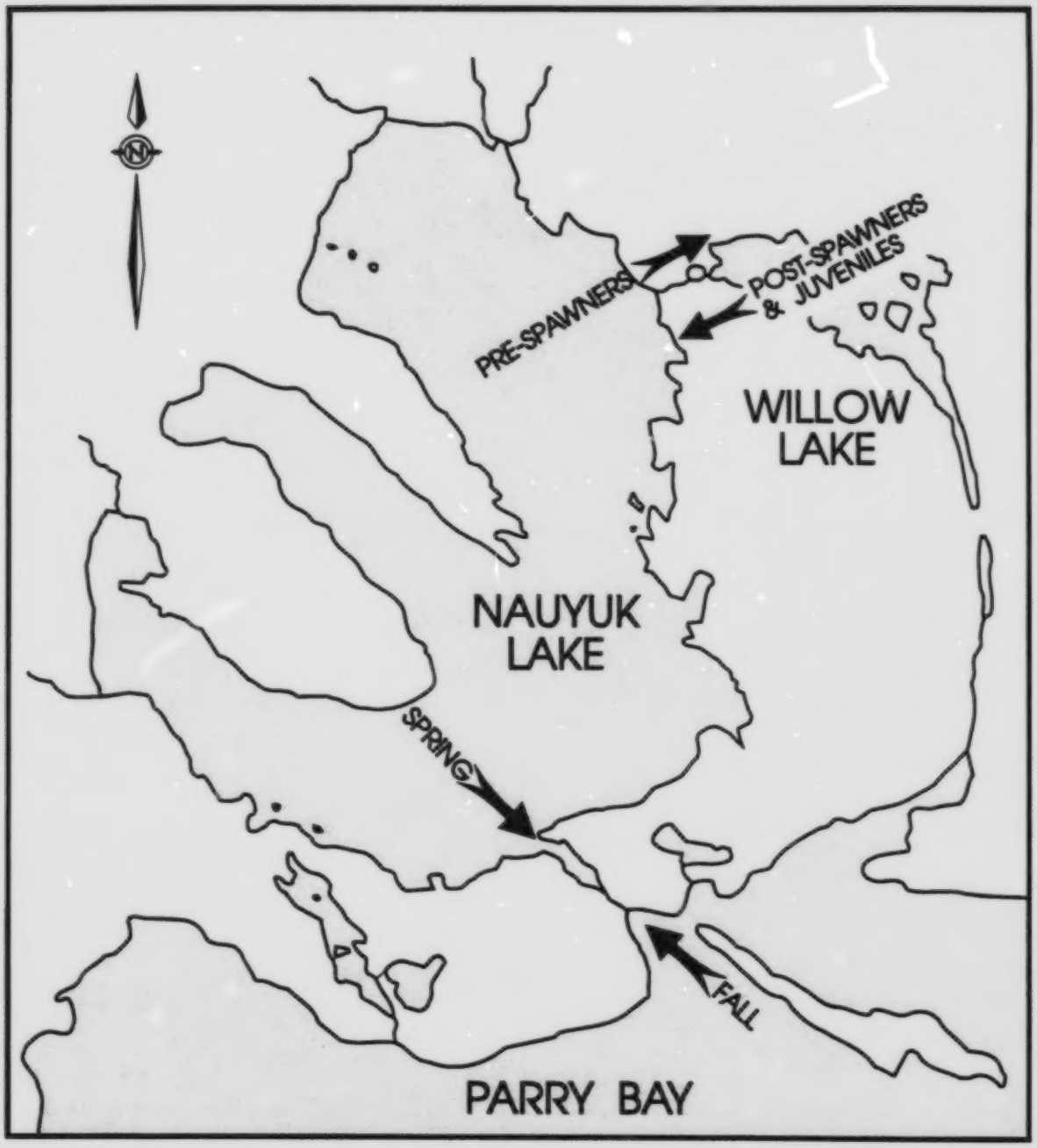

Figure 2. Arctic charr migrations in the Nauyuk Lake system.

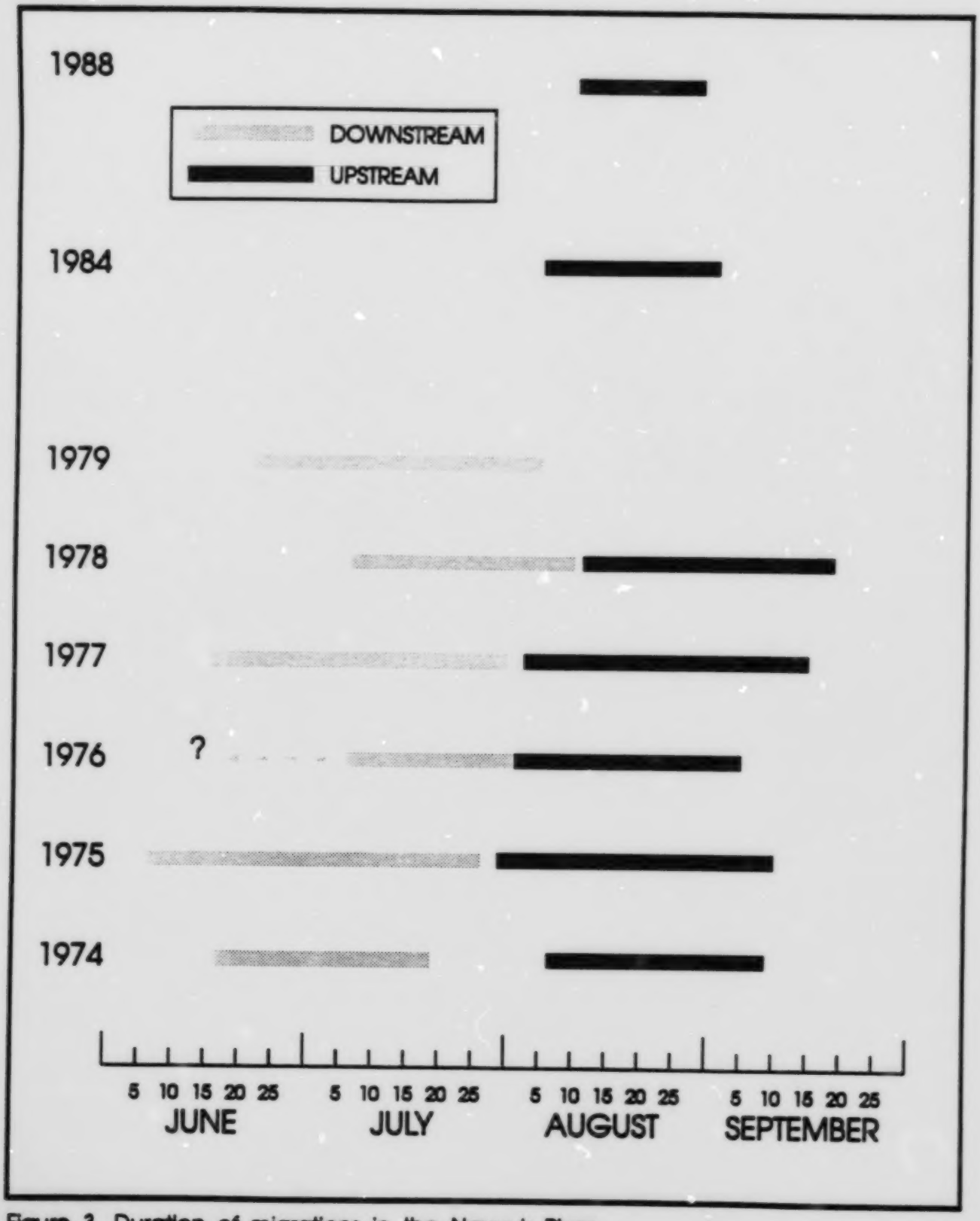

Figure 3. Duration of migrations in the Nauyuk River.

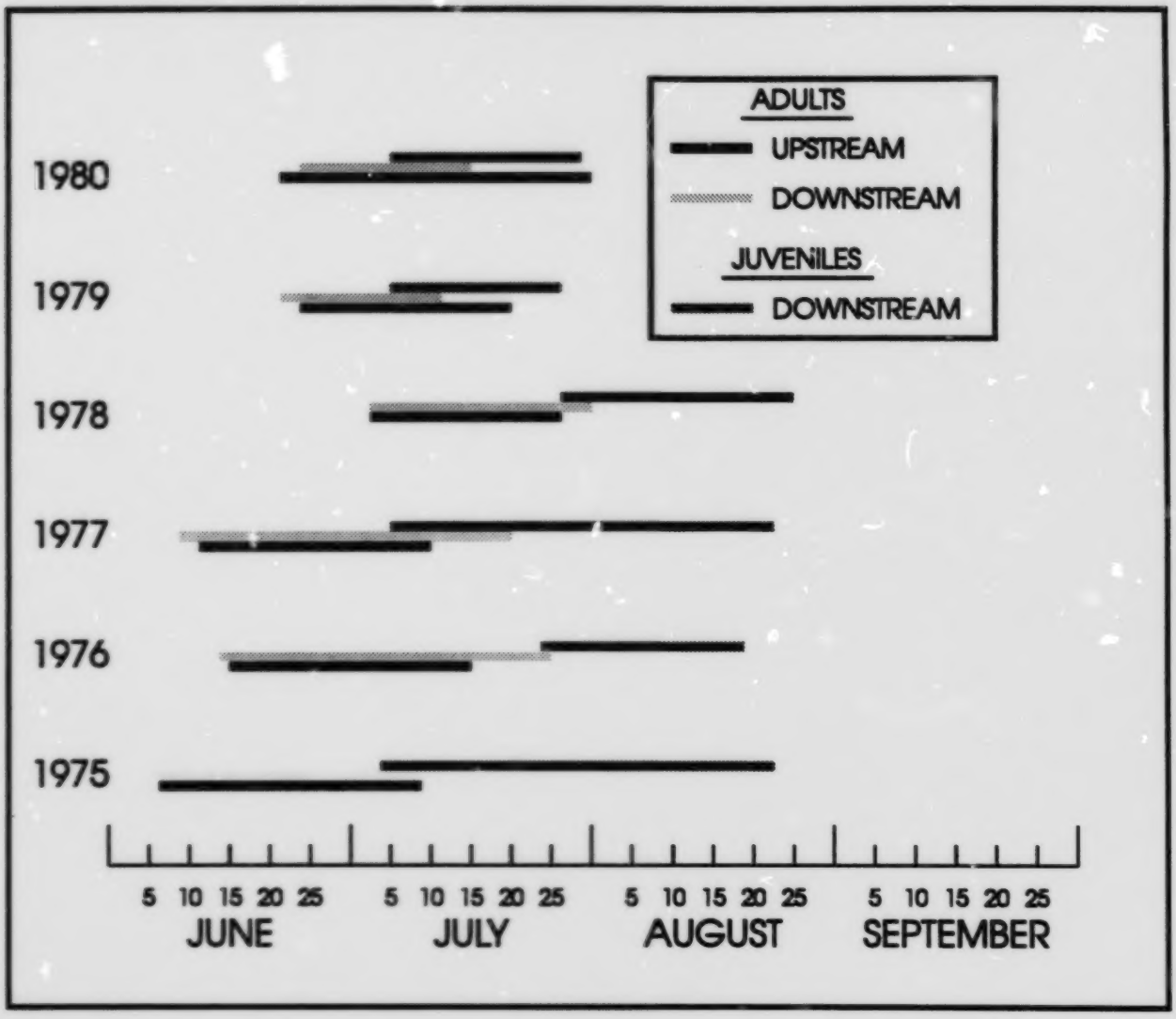

Figure 4. Duration of migrations in Willow Creek.

Table 1A. Totals of Arctic charr migrating, sampled and harvested in Nauyuk River, 1974-1988.

Year	Nauyuk River Migrations				Nauyuk River Inuit Harvest	
	Downstream		Upstream			
	Total	Sampled (% of total)	Total	Sampled (% of total)	Downstream Total	Upstream Total
1974	4287[1]	1181 (27.5)	11157	770 (6.9)	-	21[1]
1975	9611[1]	930 (9.7)	10816	609 (5.6)	70[1]	61[1]
1976	1023[1]	773 (75.6)	7684	1036 (13.5)	158[1]	176[1]
1977	6541[1]	2301 (35.1)	6211	1196 (19.3)	228	461
1978	4201[1]	2183 (51.9)	3846	1424 (37.0)	233	307
1979	3455[1]	1834 (53.1)	-	-	33[1]	-
1984	-	-	2574	1732 (67.3)	-	10[1]
1988	-	-	2629	1088 (41.4)	-	-

[1] Count incomplete.
- Not sampled.

Table 1B. Totals of adult and juvenile Arctic charr migrating and sampled in Willow Creek during the Arctic Charr Project, 1975-1980.

Year	Upstream		Downstream		
	Pre-spawners		Post-spawners		Juveniles
	Total	Sampled (% of total)	Total	Sampled (% of total)	Estimated Total
1975	277	211 (76.2)	587	101 (17.2)	28800
1976	539	505 (93.7)	198	179 (90.4)	600 [1]
1977	226	207 (91.6)	493	466 (94.5)	650
1978	190	190 (100)	258	256 (99.2)	340
1979	127	127 (100)	187	178 (95.2)	90
1980	233	232 (99.6)	113	111 (98.2)	2290

[1] Count incomplete.

Table 2. Daily totals of Arctic charr migrating downstream from Nauyuk Lake into Parry Bay, 1974-1979.

Date	Year					
	1974	1975	1976	1977	1978	1979
09 JUN		14				
10 JUN		32				
11 JUN		144				
12 JUN		153				
13 JUN		183				
14 JUN		335		1		
15 JUN		0		37		
16 JUN	31	206		0		
17 JUN	16	197		11		
18 JUN	114	407		47		
19 JUN	26	211		106		
20 JUN	115	78		132		
21 JUN	177	48		131		
22 JUN	19	132		93		
23 JUN	98	378		101		1
24 JUN	4	317		119		5
25 JUN	25	74		43		19
26 JUN	229	443		143		16
27 JUN	250	346		19		46
28 JUN	17	37		9		36
29 JUN	136	348		72		27
30 JUN	187	462		79		51
01 JUL	415	230		294		113
02 JUL	257	795		171		91
03 JUL	40	987		717		61
04 JUL	220	723		156	27	146
05 JUL	998	359		426	81	35
06 JUL	102	148	3	500	37	113
07 JUL	303	234	12	394	128	34
08 JUL	45	110	28	37	238	0
09 JUL	42	316	186	22	32	18
10 JUL	30	276	34	1	0	89
11 JUL	0	0	45	88	43	157
12 JUL	30	344	38	84	22	319
13 JUL	39	232	173	150	19	129
14 JUL	73	0	52	351	0	138
15 JUL	92	80	20	111	2	361
16 JUL	88	153	37	140	111	186
17 JUL	89	20	0	121	108	96
18 JUL		25	28	165	20	185
19 JUL		1	27	559	101	238
20 JUL		0	24	308	78	122
21 JUL		0	42	222	237	105
22 JUL		1	30	135	596	70
23 JUL		0	104	73	172	139
24 JUL		2	36	19	74	72
25 JUL		0	8	31	24	58
26 JUL		39	21	6	73	96
27 JUL		11	20	50	727	0
28 JUL			8	32	284	3
29 JUL			13	0	71	9
30 JUL			20	23	53	5
31 JUL			7	14	235	5
01 AUG					59	19
02 AUG					206	15
03 AUG					0	18
04 AUG					44	11

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Table 2 (cont'd). Daily totals of Arctic charr migrating downstream from Nauyuk Lake into Parry Bay, 1974-1979.

Date	Year					
	1974	1975	1976	1977	1978	1979
05 AUG					200	
06 AUG					10	
07 AUG					20	
08 AUG					13	
09 AUG					2	
10 AUG					0	
11 AUG					14	
12 AUG					20	
13 AUG					24	
Totals	4287	9611	1023	6541	4204	3455

Table 3. Daily total numbers of Arctic charr migrating upstream from Parry Bay into Nauyuk Lake, 1974-1988.

Date	Year						
	1974	1975	1976	1977	1978	1984	1988
30 JUL		8					
31 JUL		0					
01 AUG		14	31				
02 AUG		17	0	29			
03 AUG		180	0	33			
04 AUG		166	0	48		31	
05 AUG		358	0	106		104	
06 AUG	17	666	0	51		133	
07 AUG	10	461	86	60		46	
08 AUG	22	316	310	49		180	
09 AUG	73	548	496	209		137	119
10 AUG	164	828	218	364		207	103
11 AUG	334	1113	538	778		81	48
12 AUG	834	1636	513	306		198	143
13 AUG	807	754	441	148	116	153	148
14 AUG	864	358	396	518	59	192	73
15 AUG	1029	476	635	357	75	126	106
16 AUG	1411	318	711	386	141	233	153
17 AUG	2074	305	203	505	179	154	140
18 AUG	902	153	591	308	214	73	96
19 AUG	334	188	393	437	387	53	143
20 AUG	502	172	485	216	440	46	318
21 AUG	284	112	307	131	274	62	375
22 AUG	584	76	410	217	179	63	334
23 AUG	245	113	135	186	276	29	240
24 AUG	84	199	75	143	235	39	90
25 AUG	113	126	130	50	267	57	
26 AUG	105	75	34	70	122	59	
27 AUG	89	94	126	49	206	16	
28 AUG	26	43	127	59	102	63	
29 AUG	21	59	48	32	178	8	
30 AUG	56	115	32	41	53	31	
31 AUG	27	54	15	38	95		
01 SEP	45	15	48	53	52		
02 SEP	36	71	60	60	25		
03 SEP	13	30	62	33	35		
04 SEP	0	100	27	24	28		
05 SEP	45	86	21	7	22		
06 SEP	4	300		20	23		
07 SEP	22	41		20	15		
08 SEP	1	73		29	3		
09 SEP				10	1		
10 SEP				20	1		
11 SEP				13	13		
12 SEP				3	11		
13 SEP					5		
14 SEP					3		
15 SEP					0		
16 SEP					11		
Totals	11157	10816	7884	6211	3846	2574	2829

Table 4. Daily totals of pre-spawning Arctic charr migrating upstream in Willow Creek, 1975-1980.

Date	Year					
	1975	1976	1977	1978	1979	1980
08 JUN	6					
09 JUN	10					
10 JUN	36					
11 JUN	6					
12 JUN	50					
13 JUN	8		6			
14 JUN	31		0			
15 JUN	26	63	10			
16 JUN	10	52	3			
17 JUN	1	36	25			
18 JUN	78	147	1			
19 JUN	1	39	33			11
20 JUN	3	40	35			9
21 JUN	9	29	0			27
22 JUN	0	9	33		2	13
23 JUN	0	18	4		3	56
24 JUN	0	38	29		9	33
25 JUN	0	23	4		18	2
26 JUN	1	5	6		1	34
27 JUN	0	3	5		22	0
28 JUN	0	12	2		6	23
29 JUN	0	5	3		3	0
30 JUN	0	4	5		8	5
01 JUL	0	1	2		15	0
02 JUL	0	3	2		0	1
03 JUL	0	2	0	28	11	0
04 JUL	0	1	0	40	1	0
05 JUL	0	0	1	28	0	0
06 JUL	0	2	7	17	13	0
07 JUL	1	4	0	13	1	2
08 JUL		0	6	16	10	1
09 JUL		0	4	8	0	1
10 JUL		0		7	1	2
11 JUL		0		6	1	0
12 JUL		0		0	0	0
13 JUL		3		6	0	0
14 JUL				5	0	6
15 JUL				10	2	0
16 JUL				0	0	2
17 JUL				3	0	0
18 JUL				0	0	0
19 JUL				1	2	
20 JUL				0	1	0
21 JUL				1		0
22 JUL				0		0
23 JUL				0		0
24 JUL				0		0
25 JUL				0		0
26 JUL				1		0
27 JUL						0
28 JUL						3
Totals	277	539	228	190	127	233

Table 5. Daily totals of post-spawning Arctic charr migrating downstream in Willow Creek, 1975-1980.

Date	Year					
	1975	1976	1977	1978	1979	1980
07 JUN	77					
08 JUN	78					
09 JUN	82					
10 JUN	156					
11 JUN	41					
12 JUN	35					
13 JUN	10		1			
14 JUN	18	1	0			
15 JUN	26	2	7			
16 JUN	25	0	0			
17 JUN	8	11	27			
18 JUN	12	4	8			9
19 JUN	9	2	10			7
20 JUN	7	0	24			5
21 JUN	2	15	0			1
22 JUN	0	18	3		4	1
23 JUN	1	15	17		0	9
24 JUN		11	20		21	9
25 JUN		28	19		14	4
26 JUN		3	33		0	5
27 JUN		30	31		22	0
28 JUN		4	41		42	15
29 JUN		1	19		34	0
30 JUN		7	13		14	1
01 JUL		1	23		9	0
02 JUL		7	25		2	5
03 JUL		0	14	59	11	2
04 JUL		2	11	46	1	0
05 JUL		0	37	30	4	1
06 JUL		6	39	22	1	0
07 JUL		0	23	12	3	2
08 JUL		0	17	20	0	11
09 JUL		2	4	14	2	3
10 JUL		0	0	8	1	4
11 JUL		2	6	5	0	2
12 JUL		2	5	7	2	8
13 JUL		0	0	1		2
14 JUL		1	0	11		0
15 JUL		0	8	4		2
16 JUL		0	0	0		0
17 JUL		4	0	0		0
18 JUL		0	5	3		3
19 JUL		7	3	2		
20 JUL		0		0		
21 JUL		0		0		
22 JUL		1		0		
23 JUL		3		0		
24 JUL		0		3		
25 JUL		5		0		
26 JUL		2		1		
27 JUL		1		3		
28 JUL				0		
29 JUL				3		
30 JUL				1		
31 JUL				3		
Totals	587	198	493	258	187	111

Table 6. Length frequency distribution and mean fork length, weight, and condition of sampled Arctic charr in the 1974 Nauyuk River downstream migration.

Length Interval (mm)	N	Percent (%)	Fork Length Mean (mm)	Weight Mean (g)	Weight St. Err. (g)	Condition Mean
150 - 169	1	0.1	169	42	.	0.87
170 - 189	5	0.4	182	53	3	0.88
190 - 209	28	2.4	202	73	1	0.89
210 - 229	80	6.8	220	94	1	0.88
230 - 249	38	3.2	237	112	2	0.84
250 - 269	9	0.8	255	124	10	0.75
270 - 289	6	0.5	276	194	17	0.92
290 - 309	4	0.3	302	228	21	0.83
310 - 329	5	0.4	319	286	23	0.88
330 - 349	7	0.6	340	315	35	0.80
350 - 369	10	0.8	359	405	11	0.87
370 - 389	14	1.2	381	505	17	0.91
390 - 409	14	1.2	400	600	35	0.94
410 - 429	25	2.1	421	701	13	0.94
430 - 449	30	2.5	439	787	17	0.93
450 - 469	40	3.4	461	928	32	0.95
470 - 489	36	3.0	480	1036	15	0.94
490 - 509	50	4.2	499	1180	17	0.95
510 - 529	60	5.1	520	1388	18	0.99
530 - 549	68	5.8	540	1532	17	0.97
550 - 569	49	4.1	561	1756	24	1.00
570 - 589	62	5.2	579	2023	41	1.04
590 - 609	60	5.1	600	2228	29	1.03
610 - 629	51	4.3	621	2518	29	1.05
630 - 649	37	3.1	638	2599	54	1.00
650 - 669	34	2.9	660	2916	70	1.02
670 - 689	46	3.9	679	3003	86	0.96
690 - 709	41	3.5	700	3243	117	0.95
710 - 729	45	3.8	720	3543	122	0.95
730 - 749	56	4.7	740	4034	102	1.00
750 - 769	52	4.4	758	4213	104	0.97
770 - 789	34	2.9	780	4457	135	0.94
790 - 809	26	2.2	800	4975	168	0.97
810 - 829	23	1.9	818	5248	192	0.96
830 - 849	18	1.5	840	5711	224	0.96
850 - 869	13	1.1	858	6304	228	1.00
870 - 889	1	0.1	873	7450	.	1.12
890 - 909	1	0.1	892	5900	.	0.83
930 - 949	1	0.1	937	8500	.	1.03
950 - 969	1	0.1	953	6200	.	0.72
	1181	100.0	555	2169	48	0.96

Table 7. Length frequency distribution and mean fork length, weight, and condition of sampled Arctic charr in the 1974 Nauyuk River upstream migration.

Length Interval (mm)	N	Percent (%)	Fork Length Mean (mm)	Weight Mean (g)	Weight St. Err. (g)	Condition Mean
170 - 189	2	0.3	180	61	18	1.02
330 - 349	3	0.4	340	445	48	1.14
350 - 369	4	0.5	358	581	39	1.27
370 - 389	9	1.2	376	678	18	1.27
390 - 409	11	1.4	400	834	17	1.30
410 - 429	16	2.1	419	895	22	1.22
430 - 449	17	2.2	441	1085	16	1.27
450 - 469	24	3.1	461	1203	25	1.23
470 - 489	34	4.4	478	1314	23	1.20
490 - 509	47	6.1	500	1529	21	1.22
510 - 529	38	4.9	521	1713	29	1.21
530 - 549	49	6.4	540	1967	28	1.25
550 - 569	60	7.8	559	2160	30	1.23
570 - 589	57	7.4	579	2409	28	1.24
590 - 609	61	7.9	600	2618	25	1.21
610 - 629	67	8.7	620	2963	34	1.24
630 - 649	42	5.5	639	3246	43	1.24
650 - 669	32	4.2	660	3422	54	1.19
670 - 689	34	4.4	680	3660	88	1.17
690 - 709	43	5.6	700	3766	65	1.10
710 - 729	39	5.1	719	4207	88	1.13
730 - 749	28	3.6	738	4526	123	1.13
750 - 769	19	2.5	760	4792	204	1.09
770 - 789	13	1.7	780	4992	177	1.05
790 - 809	7	0.9	801	5479	246	1.07
810 - 829	4	0.5	818	5575	303	1.02
830 - 849	6	0.8	839	5833	479	0.99
850 - 869	3	0.4	856	5800	546	0.92
870 - 889	1	0.1	880	7550	.	1.11
	770	100.0	595	2706	46	1.20

Table 8. Length frequency distribution and mean fork length, weight, and condition of sampled Arctic charr in the 1975 Nauyuk River downstream migration.

Length Interval (mm)	N	Percent (%)	Fork Length Mean (mm)	Weight Mean (g)	Weight St. Err. (g)	Condition Mean
110 - 129	2	0.2	120	13	1	0.76
130 - 149	1	0.1	138	19	.	0.72
150 - 169	5	0.5	162	32	2	0.75
170 - 189	10	1.1	181	49	2	0.83
190 - 209	14	1.5	199	65	1	0.82
210 - 229	11	1.2	220	86	3	0.80
230 - 249	5	0.5	237	96	5	0.72
250 - 269	9	1.0	258	137	8	0.79
270 - 289	5	0.5	279	236	28	1.08
290 - 309	10	1.1	301	259	15	0.95
310 - 329	7	0.8	318	290	10	0.91
330 - 349	16	1.7	339	365	13	0.94
350 - 369	36	3.9	361	417	8	0.88
370 - 389	41	4.4	379	483	7	0.88
390 - 409	36	3.9	398	568	11	0.90
410 - 429	34	3.7	419	668	8	0.91
430 - 449	42	4.5	441	790	10	0.92
450 - 469	28	3.0	460	887	19	0.91
470 - 489	35	3.8	480	1014	13	0.92
490 - 509	35	3.8	501	1141	16	0.91
510 - 529	32	3.4	519	1317	24	0.94
530 - 549	40	4.3	540	1522	22	0.97
550 - 569	38	4.1	560	1679	23	0.95
570 - 589	45	4.8	580	1923	34	0.99
590 - 609	54	5.8	599	2170	24	1.01
610 - 629	47	5.1	619	2397	34	1.01
630 - 649	44	4.7	641	2611	46	0.99
650 - 669	45	4.8	658	2829	54	0.99
670 - 689	40	4.3	678	2995	62	0.96
690 - 709	32	3.4	699	3213	77	0.94
710 - 729	40	4.3	719	3293	80	0.89
730 - 749	27	2.9	738	3404	143	0.85
750 - 769	25	2.7	758	4121	133	0.95
770 - 789	16	1.7	779	3942	210	0.83
790 - 809	8	0.9	801	4622	222	0.90
810 - 829	10	1.1	817	5066	248	0.93
830 - 849	4	0.4	838	5175	423	0.88
850 - 869	1	0.1	850	7000	.	1.14
	930	100.0	537	1807	42	0.93

Table 9. Length frequency distribution and mean fork length, weight, and condition of sampled Arctic charr in the 1975 Nauyuk River upstream migration.

Length Interval (mm)	N	Percent (%)	Fork Length Mean (mm)	Weight Mean (g)	Weight St. Err. (g)	Condition Mean
170 - 189	2	0.3	184	53	5	0.85
190 - 209	3	0.5	197	73	15	0.94
210 - 229	1	0.2	214	125	.	1.28
230 - 249	3	0.5	239	92	32	0.69
250 - 269	1	0.2	268	200	.	1.04
270 - 289	5	0.8	276	226	13	1.07
290 - 309	4	0.7	305	312	7	1.10
310 - 329	4	0.7	318	351	15	1.09
330 - 349	10	1.6	336	413	23	1.09
350 - 369	6	1.0	357	518	15	1.14
370 - 389	7	1.1	382	586	43	1.05
390 - 409	21	3.4	400	708	17	1.11
410 - 429	35	5.7	420	830	10	1.12
430 - 449	28	4.6	438	961	14	1.14
450 - 469	28	4.6	459	1077	15	1.11
470 - 489	28	4.6	480	1311	18	1.19
490 - 509	30	4.9	498	1439	27	1.16
510 - 529	25	4.1	520	1661	39	1.18
530 - 549	29	4.8	541	1888	32	1.19
550 - 569	35	5.7	559	2066	31	1.18
570 - 589	32	5.2	578	2367	36	1.22
590 - 609	32	5.2	600	2695	42	1.25
610 - 629	33	5.4	620	2936	37	1.23
630 - 649	22	3.6	638	3240	56	1.25
650 - 669	29	4.8	659	3532	66	1.24
670 - 689	31	5.1	679	3840	79	1.23
690 - 709	25	4.1	698	4139	73	1.21
710 - 729	29	4.8	719	4374	80	1.18
730 - 749	32	5.2	740	4754	115	1.17
750 - 769	12	2.0	758	4983	213	1.14
770 - 789	12	2.0	778	5777	141	1.23
790 - 809	10	1.6	798	5535	233	1.09
810 - 829	4	0.7	818	6181	204	1.13
830 - 849	1	0.2	849	8000	.	1.31
850 - 869	1	0.2	860	6975	.	1.10
	610	100.0	565	2498	64	1.17

Table 10. Length frequency distribution and mean fork length, weight, and condition of sampled Arctic charr in the 1976 Nauyuk River downstream migration.

Length Interval (mm)	N	Percent (%)	Fork Length Mean (mm)	Weight Mean (g)	Weight St. Err. (g)	Condition Mean
90 - 109	1	0.1	105	8	.	0.69
130 - 149	2	0.3	138	22	1	0.85
150 - 169	19	2.5	162	37	1	0.86
170 - 189	38	4.9	180	50	1	0.85
190 - 209	56	7.2	200	66	1	0.82
210 - 229	54	7.0	220	86	1	0.81
230 - 249	52	6.7	238	111	2	0.82
250 - 269	44	5.7	259	140	2	0.80
270 - 289	52	6.7	279	174	2	0.80
290 - 309	53	6.9	299	213	2	0.80
310 - 329	49	6.3	319	268	3	0.83
330 - 349	45	5.8	340	316	4	0.80
350 - 369	21	2.7	358	381	5	0.83
370 - 389	29	3.8	379	456	6	0.84
390 - 409	25	3.2	398	537	7	0.85
410 - 429	38	4.9	420	629	6	0.85
430 - 449	38	4.9	440	737	9	0.86
450 - 469	35	4.5	457	829	10	0.87
470 - 489	32	4.1	478	970	15	0.89
490 - 509	24	3.1	499	1097	23	0.88
510 - 529	8	1.0	516	1198	41	0.87
530 - 549	4	0.5	537	1379	56	0.89
550 - 569	9	1.2	560	1510	77	0.86
570 - 589	9	1.2	577	1698	89	0.88
590 - 609	11	1.4	599	1856	80	0.86
610 - 629	5	0.6	624	2203	157	0.91
630 - 649	2	0.3	638	2005	455	0.78
650 - 669	1	0.1	656	1990	.	0.70
670 - 689	3	0.4	682	1865	213	0.59
690 - 709	5	0.6	702	2554	203	0.74
710 - 729	3	0.4	715	3213	359	0.88
730 - 749	3	0.4	733	3063	158	0.78
750 - 769	1	0.1	765	2285	.	0.51
770 - 789	1	0.1	780	3340	.	0.70
850 - 869	1	0.1	857	6230	.	0.99
	773	100.0	341	484	21	0.83

Table 11. Length frequency distribution and mean fork length, weight, and condition of sampled Arctic charr in the 1976 Nauyuk River upstream migration.

Length Interval (mm)	N	Percent (%)	Fork Length Mean (mm)	Weight Mean (g)	Weight St. Err. (g)	Condition Mean
150 - 169	3	0.3	161	41	5	0.99
170 - 189	1	0.1	174	50	.	0.95
190 - 209	20	1.9	203	83	2	0.99
210 - 229	18	1.7	218	101	2	0.97
230 - 249	32	3.1	238	132	3	0.98
250 - 269	15	1.4	260	174	4	1.00
270 - 289	26	2.5	280	226	5	1.02
290 - 309	14	1.4	299	261	6	0.98
310 - 329	11	1.1	319	344	11	1.06
330 - 349	15	1.4	344	414	10	1.02
350 - 369	19	1.8	359	489	12	1.06
370 - 389	18	1.7	377	564	13	1.06
390 - 409	28	2.7	399	684	11	1.07
410 - 429	22	2.1	420	803	12	1.09
430 - 449	29	2.8	440	934	18	1.10
450 - 469	56	5.4	461	1058	12	1.08
470 - 489	51	4.9	478	1201	12	1.10
490 - 509	57	5.5	500	1355	16	1.08
510 - 529	48	4.6	518	1527	19	1.10
530 - 549	45	4.3	539	1710	20	1.09
550 - 569	45	4.3	559	1895	26	1.08
570 - 589	54	5.2	579	2118	28	1.09
590 - 609	67	6.5	599	2313	25	1.07
610 - 629	63	6.1	620	2577	34	1.08
630 - 649	66	6.4	640	2821	48	1.08
650 - 669	47	4.5	658	3043	45	1.07
670 - 689	45	4.3	679	3338	66	1.06
690 - 709	37	3.6	699	3466	77	1.01
710 - 729	33	3.2	717	3903	100	1.06
730 - 749	27	2.6	739	3935	106	0.97
750 - 769	16	1.5	760	4388	172	1.00
770 - 789	2	0.2	781	5070	340	1.06
790 - 809	4	0.4	793	4760	504	0.95
810 - 829	1	0.1	811	5840	.	1.09
910 - 929	1	0.1	911	6720	.	0.89
	1036	100.0	524	1866	38	1.06

Table 12. Length frequency distribution and mean fork length, weight, and condition of sampled Arctic charr in the 1977 Nauyuk River downstream migration.

Length Interval (mm)	N	Percent (%)	Fork Length Mean (mm)	Weight Mean (g)	Weight St. Err. (g)	Condition Mean
90 - 109	6	0.3	104	9	1	0.77
110 - 129	45	2.0	118	12	< 0	0.75
130 - 149	16	0.7	137	19	1	0.73
150 - 169	5	0.2	159	28	2	0.69
170 - 189	12	0.5	182	46	2	0.77
190 - 209	22	1.0	198	59	1	0.76
210 - 229	17	0.7	218	80	3	0.77
230 - 249	15	0.7	238	105	6	0.78
250 - 269	8	0.3	259	131	4	0.75
270 - 289	9	0.4	279	161	7	0.74
290 - 309	23	1.0	297	204	4	0.77
310 - 329	10	0.4	319	258	8	0.79
330 - 349	10	0.4	342	309	10	0.77
350 - 369	15	0.7	359	377	10	0.81
370 - 389	15	0.7	380	458	11	0.83
390 - 409	29	1.3	400	542	8	0.85
410 - 429	36	1.6	421	634	8	0.85
430 - 449	40	1.7	442	729	8	0.85
450 - 469	66	2.9	460	836	7	0.86
470 - 489	85	3.7	480	954	7	0.86
490 - 509	110	4.8	500	1104	8	0.88
510 - 529	108	4.7	520	1232	11	0.88
530 - 549	99	4.3	541	1419	13	0.90
550 - 569	116	5.0	560	1549	16	0.88
570 - 589	140	6.1	580	1716	20	0.88
590 - 609	152	6.6	599	1900	21	0.88
610 - 629	157	6.8	619	2125	23	0.90
630 - 649	161	7.0	638	2349	27	0.90
650 - 669	150	6.5	659	2594	33	0.91
670 - 689	137	6.0	679	2654	34	0.85
690 - 709	128	5.6	700	2844	40	0.83
710 - 729	130	5.6	719	3032	50	0.82
730 - 749	115	5.0	739	3350	62	0.83
750 - 769	71	3.1	758	3780	87	0.87
770 - 789	23	1.0	779	4068	148	0.86
790 - 809	13	0.6	798	4335	270	0.85
810 - 829	3	0.1	817	5417	204	0.99
830 - 849	2	0.1	840	5840	310	0.99
870 - 889	1	0.0	889	6600	.	0.94
910 - 929	1	0.0	916	6560	.	0.85
	2301	100.0	572	1915	23	0.86

Table 13. Length frequency distribution and mean fork length, weight, and condition of sampled Arctic charr in the 1977 Nauyuk River upstream migration.

Length Interval (mm)	N	Percent (%)	Fork Length Mean (mm)	Weight Mean (g)	Weight St. Err. (g)	Condition Mean
110 - 129	2	0.2	119	17	1	1.01
130 - 149	5	0.4	143	27	1	0.94
150 - 169	1	0.1	150	34	.	1.01
170 - 189	1	0.1	172	42	.	0.83
190 - 209	10	0.8	201	83	3	1.01
210 - 229	32	2.7	220	105	2	0.99
230 - 249	42	3.5	239	139	2	1.02
250 - 269	34	2.8	258	183	5	1.06
270 - 289	19	1.6	279	230	7	1.06
290 - 309	11	0.9	298	304	8	1.15
310 - 329	2	0.2	324	314	27	0.92
330 - 369	5	0.4	363	498	25	1.05
370 - 389	4	0.3	380	575	10	1.05
390 - 409	10	0.8	398	699	30	1.10
410 - 429	12	1.0	419	812	23	1.11
430 - 449	22	1.8	439	953	18	1.13
450 - 469	21	1.8	462	1138	19	1.15
470 - 489	36	3.0	479	1247	15	1.13
490 - 509	51	4.3	499	1362	17	1.10
510 - 529	82	6.9	519	1546	15	1.10
530 - 549	72	6.0	538	1747	15	1.12
550 - 569	66	5.5	560	1958	26	1.11
570 - 589	71	5.9	581	2155	25	1.10
590 - 609	84	7.0	599	2337	23	1.09
610 - 629	86	7.2	619	2568	30	1.08
630 - 649	66	5.5	639	2768	40	1.06
650 - 669	70	5.9	659	3054	32	1.07
670 - 689	64	5.4	680	3381	42	1.07
690 - 709	54	4.5	700	3412	70	1.00
710 - 729	55	4.6	719	3767	69	1.01
730 - 749	52	4.3	738	3956	95	0.98
750 - 769	30	2.5	759	4353	112	1.00
770 - 789	15	1.3	779	5102	134	1.08
790 - 809	5	0.4	797	5116	397	1.01
810 - 829	2	0.2	817	4930	110	0.91
830 - 849	2	0.2	835	6490	430	1.11
	1196	100.0	556	2193	37	1.07

Table 14. Length frequency distribution and mean fork length, weight, and condition of sampled Arctic charr in the 1978 Nauyuk River downstream migration.

Length Interval (mm)	N	Percent (%)	Fork Length Mean (mm)	Weight Mean (g)	Weight St. Err.	Condition Mean
150 - 169	2	0.1	160	32	3	0.78
170 - 189	1	< 0.0	189	53	.	0.79
210 - 229	4	0.2	225	85	2	0.75
230 - 249	17	0.8	240	106	3	0.76
250 - 269	20	0.9	261	136	2	0.77
270 - 289	19	0.9	279	167	4	0.77
290 - 309	10	0.5	298	208	6	0.79
310 - 329	9	0.4	317	263	10	0.82
330 - 349	7	0.3	340	299	13	0.76
350 - 369	8	0.4	357	375	13	0.82
370 - 389	8	0.4	379	473	22	0.86
390 - 409	13	0.6	397	530	10	0.85
410 - 429	14	0.6	419	604	22	0.82
430 - 449	13	0.6	441	734	19	0.85
450 - 469	28	1.3	459	863	22	0.89
470 - 489	45	2.1	479	959	10	0.87
490 - 509	68	3.1	499	1104	13	0.89
510 - 529	111	5.1	520	1239	10	0.88
530 - 549	155	7.1	540	1428	12	0.91
550 - 569	194	8.9	559	1539	12	0.88
570 - 589	178	8.2	580	1715	16	0.88
590 - 609	242	11.1	600	1894	17	0.88
610 - 629	201	9.2	620	2055	21	0.86
630 - 649	153	7.0	638	2299	23	0.88
650 - 669	136	6.2	659	2524	26	0.88
670 - 689	138	6.3	678	2715	32	0.87
690 - 709	121	5.5	698	2917	37	0.86
710 - 729	105	4.8	718	3174	39	0.86
730 - 749	59	2.7	739	3401	66	0.84
750 - 769	49	2.2	758	3661	78	0.84
770 - 789	28	1.3	779	4092	105	0.87
790 - 809	16	0.7	799	4269	171	0.84
810 - 829	8	0.4	817	4100	201	0.75
830 - 849	2	0.1	835	5335	125	0.92
850 - 869	1	< 0.0	850	3270	.	0.53
	2183	100.0	596	2010	19	0.87

Table 15. Length frequency distribution and mean fork length, weight, and condition of sampled Arctic charr in the 1978 Nauyuk River upstream migration.

Length Interval (mm)	N	Percent (%)	Fork Length Mean (mm)	Weight Mean (g)	Weight St. Err. (g)	Condition Mean
90 - 109	1	0.1	109	10	.	0.77
110 - 129	4	0.3	122	17	2	0.95
130 - 149	1	0.1	133	20	.	0.85
150 - 169	3	0.2	159	33	3	0.81
170 - 189	2	0.1	179	48	6	0.84
190 - 209	1	0.1	190	60	.	0.87
230 - 249	4	0.3	239	121	5	0.89
250 - 269	7	0.5	263	168	7	0.93
270 - 289	16	1.1	280	203	5	0.93
290 - 309	16	1.1	297	249	8	0.94
310 - 329	4	0.3	318	294	5	0.91
330 - 349	5	0.4	340	366	22	0.93
350 - 369	6	0.4	359	407	19	0.87
370 - 389	3	0.2	383	510	32	0.90
390 - 409	9	0.6	401	589	24	0.91
410 - 429	5	0.4	419	652	13	0.89
430 - 449	10	0.7	439	789	30	0.93
450 - 469	21	1.5	462	913	18	0.93
470 - 489	24	1.7	480	1030	18	0.93
490 - 509	62	4.4	500	1201	13	0.96
510 - 529	59	4.1	519	1318	18	0.94
530 - 549	93	6.5	540	1498	15	0.95
550 - 569	132	9.3	559	1668	14	0.95
570 - 589	130	9.1	579	1837	19	0.95
590 - 609	138	9.7	600	2027	21	0.94
610 - 629	136	9.6	618	2198	27	0.93
630 - 649	117	8.2	639	2480	30	0.95
650 - 669	116	8.1	659	2709	41	0.95
670 - 689	75	5.3	679	3014	42	0.97
690 - 709	76	5.3	699	3346	46	0.98
710 - 729	54	3.8	719	3548	53	0.95
730 - 749	40	2.8	740	3966	94	0.98
750 - 769	30	2.1	758	4060	82	0.93
770 - 789	14	1.0	778	4414	176	0.94
790 - 809	4	0.3	802	4833	532	0.94
810 - 829	4	0.3	816	5260	206	0.97
850 - 869	1	0.1	860	4680	.	0.74
870 - 889	1	0.1	875	3510	.	0.52
	1424	100.0	593	2158	26	0.95

Table 16. Length frequency distribution and mean fork length, weight, and condition of sampled Arctic charr in the 1979 Nauyuk River downstream migration.

Length Interval (mm)	N	Percent (%)	Fork Length Mean (mm)	Weight Mean (g)	Weight St. Err. (g)	Condition Mean
170 - 189	5	0.3	180	44	3	0.75
190 - 209	1	0.1	190	50	.	0.73
210 - 229	5	0.3	216	66	5	0.65
230 - 249	2	0.1	236	91	2	0.70
250 - 269	4	0.2	265	145	6	0.78
270 - 289	15	0.8	279	158	3	0.73
290 - 309	10	0.5	300	205	6	0.76
310 - 329	7	0.4	321	248	14	0.75
330 - 349	8	0.4	339	307	12	0.79
350 - 369	7	0.4	365	390	11	0.80
370 - 389	8	0.4	376	404	14	0.76
390 - 409	8	0.4	398	499	22	0.79
410 - 429	13	0.7	418	592	13	0.81
430 - 449	14	0.8	440	697	23	0.82
450 - 469	28	1.5	461	779	13	0.80
470 - 489	27	1.5	478	920	15	0.84
490 - 509	63	3.4	499	1031	16	0.83
510 - 529	87	4.7	519	1160	12	0.83
530 - 549	101	5.5	540	1299	13	0.83
550 - 569	161	8.8	560	1469	12	0.84
570 - 589	176	9.6	579	1600	15	0.82
590 - 609	198	10.8	600	1806	16	0.84
610 - 629	172	9.4	618	1964	19	0.83
630 - 649	140	7.6	639	2160	24	0.83
650 - 669	129	7.0	658	2320	29	0.81
670 - 689	125	6.8	679	2673	32	0.85
690 - 709	104	5.7	698	2827	38	0.83
710 - 729	81	4.4	719	3024	46	0.81
730 - 749	51	2.8	739	3425	61	0.85
750 - 769	48	2.6	759	3735	77	0.85
770 - 789	22	1.2	779	3845	101	0.81
790 - 809	10	0.5	797	4361	97	0.86
810 - 829	4	0.2	815	4465	240	0.82
	1834	100.0	601	1946	20	0.83

Table 17. Length frequency distribution and mean fork length, weight, and condition of sampled Arctic charr in the 1984 Nauyuk River upstream migration. The downstream run was not monitored.

Length Interval (mm)	N	Percent (%)	Fork Length Mean (mm)	Weight Mean (g)	Weight St. Err. (g)	Condition Mean
170 - 189	1	0.1	182	58	.	0.96
190 - 209	7	0.4	200	80	4	0.99
210 - 229	17	1.0	221	114	3	1.05
230 - 249	33	1.9	239	147	3	1.08
250 - 269	52	3.0	260	196	3	1.12
270 - 289	42	2.4	278	253	7	1.18
290 - 309	27	1.6	299	334	8	1.24
310 - 329	45	2.6	319	397	6	1.23
330 - 349	48	2.8	340	493	7	1.26
350 - 369	52	3.0	359	587	8	1.26
370 - 389	53	3.1	378	698	9	1.29
390 - 409	43	2.5	399	827	12	1.30
410 - 429	52	3.0	420	949	11	1.28
430 - 449	65	3.8	440	1117	13	1.31
450 - 469	91	5.3	461	1265	12	1.29
470 - 489	133	7.7	480	1470	11	1.33
490 - 509	171	9.9	499	1671	11	1.34
510 - 529	201	11.6	519	1900	12	1.36
530 - 549	158	9.1	539	2147	16	1.37
550 - 569	116	6.7	558	2456	22	1.41
570 - 589	76	4.4	579	2693	27	1.39
590 - 609	64	3.7	598	2958	36	1.38
610 - 629	37	2.1	619	3341	56	1.41
630 - 649	29	1.7	639	3661	71	1.40
650 - 669	12	0.7	658	3925	131	1.38
670 - 689	15	0.9	680	4128	177	1.31
690 - 709	23	1.3	701	4323	101	1.26
710 - 729	19	1.1	719	4773	105	1.28
730 - 749	22	1.3	738	5115	127	1.27
750 - 769	6	0.3	756	5320	201	1.23
770 - 789	6	0.3	781	5690	329	1.19
790 - 809	7	0.4	798	6360	188	1.25
810 - 829	5	0.3	820	5792	555	1.05
830 - 849	2	0.1	842	8070	430	1.35
850 - 869	2	0.1	859	7110	610	1.13
	1732	100.0	484	1796	30	1.31

Table 18. Length frequency distribution and mean fork length, weight, and condition of sampled Arctic charr in the 1988 Nauyuk River upstream migration. The downstream run was not monitored.

Length Interval (mm)	N	Percent (%)	Fork Length Mean (mm)	Weight Mean (g)	Weight St. Err. (g)	Condition Mean
150 - 169	1	0.1	163	60	.	1.39
190 - 209	2	0.2	204	185	85	2.11
210 - 229	3	0.3	225	160	15	1.41
230 - 249	13	1.2	242	178	11	1.26
250 - 269	23	2.1	259	217	4	1.24
270 - 289	49	4.5	281	274	4	1.24
290 - 309	64	5.9	301	352	4	1.30
310 - 329	92	8.5	319	423	4	1.30
330 - 349	95	8.7	341	507	4	1.28
350 - 369	71	6.5	360	588	5	1.26
370 - 389	49	4.5	378	690	7	1.28
390 - 409	33	3.0	399	807	8	1.27
410 - 429	18	1.7	422	982	17	1.31
430 - 449	20	1.8	440	1135	19	1.33
450 - 469	31	2.8	461	1324	17	1.35
470 - 489	29	2.7	479	1480	26	1.34
490 - 509	58	5.3	500	1643	21	1.31
510 - 529	48	4.4	518	1887	29	1.35
530 - 549	52	4.8	540	2074	38	1.32
550 - 569	70	6.4	559	2369	25	1.35
570 - 589	58	5.3	580	2627	24	1.35
590 - 609	34	3.1	599	2884	50	1.34
610 - 629	39	3.6	619	3110	38	1.31
630 - 649	30	2.8	639	3466	48	1.33
650 - 669	26	2.4	658	3732	75	1.31
670 - 689	28	2.6	678	3994	70	1.28
690 - 709	12	1.1	699	4592	177	1.34
710 - 729	15	1.4	718	4843	142	1.31
730 - 749	13	1.2	741	5167	148	1.27
750 - 769	4	0.4	756	5690	353	1.32
770 - 789	2	0.2	779	6040	100	1.28
790 - 809	2	0.2	800	6250	610	1.22
810 - 829	2	0.2	811	5550	1050	1.04
830 - 849	1	0.1	845	7700	.	1.28
850 - 869	1	0.1	850	7190	.	1.17
	1089	100.0	459	1625	41	1.30

Table 19. Length frequency distribution and mean fork length, weight, and condition of pre-spawning Arctic charr migrating upstream in Willow Creek, 1975.

Length Interval (mm)	N	Percent (%)	Fork Length Mean (mm)	Weight Mean (g)	Weight St. Err. (g)	Condition Mean
530 - 549	3	1.4	539	1600	38	1.02
550 - 569	7	3.3	561	1817	63	1.03
570 - 589	7	3.3	576	2082	54	1.09
590 - 609	12	5.7	601	2217	44	1.02
610 - 629	13	6.2	618	2421	50	1.02
630 - 649	17	8.1	642	2700	59	1.02
650 - 669	22	10.4	659	2860	64	1.00
670 - 689	28	13.3	680	3065	49	0.97
690 - 709	31	14.7	700	3362	47	0.98
710 - 729	36	17.1	718	3464	50	0.94
730 - 749	14	6.6	738	3735	95	0.93
750 - 769	9	4.3	758	4097	108	0.94
770 - 789	9	4.3	779	4381	237	0.93
790 - 809	1	0.5	804	5250	.	1.01
810 - 829	1	0.5	818	5675	.	1.04
830 - 849	1	0.5	834	5500	.	0.95
	211	100.0	680	3122	51	0.98

Table 20. Length frequency distribution and mean fork length, weight, and condition of post-spawning Arctic charr migrating downstream in Willow Creek, 1975.

Length Interval (mm)	N	Percent (%)	Fork Length Mean (mm)	Weight Mean (g)	Weight St. Err. (g)	Condition Mean
590 - 609	2	2.0	598	1700	75	0.80
610 - 629	9	8.9	621	1914	51	0.80
630 - 649	2	2.0	632	1863	88	0.74
650 - 669	9	8.9	662	2256	67	0.78
670 - 689	19	18.8	678	2433	65	0.78
690 - 709	14	13.9	701	2702	92	0.79
710 - 729	19	18.8	719	2739	72	0.74
730 - 749	15	14.9	737	2988	83	0.75
750 - 769	4	4.0	761	3575	253	0.81
770 - 789	5	5.0	775	3295	122	0.71
790 - 809	2	2.0	799	4063	563	0.80
810 - 829	1	1.0	817	3650	.	0.67
	101	100.0	701	2655	55	0.77

Table 21. Length frequency distribution and mean fork length, weight, and condition of pre-spawning Arctic charr migrating upstream in Willow Creek, 1976.

Length Interval (mm)	N	Percent (%)	Fork Length Mean (mm)	Weight Mean (g)	Weight St. Err. (g)	Condition Mean
530 - 549	4	0.8	546	1644	61	1.01
550 - 569	3	0.6	563	1758	51	0.99
570 - 589	17	3.4	583	1985	26	1.00
590 - 609	28	5.5	598	2224	32	1.04
610 - 629	26	5.1	618	2486	29	1.05
630 - 649	19	3.8	637	2670	43	1.03
650 - 669	23	4.6	661	2870	59	0.99
670 - 689	46	9.1	680	3153	34	1.00
690 - 709	69	13.7	700	3437	29	1.00
710 - 729	82	16.2	719	3683	35	0.99
730 - 749	81	16.0	740	3990	32	0.99
750 - 769	56	11.1	759	4225	42	0.96
770 - 789	29	5.7	779	4566	73	0.97
790 - 809	13	2.6	799	4896	90	0.96
810 - 829	5	1.0	814	5080	81	0.94
830 - 849	3	0.6	831	5358	160	0.93
850 - 869	1	0.2	865	5300	.	0.82
	505	100.0	703	3517	36	0.99

Table 22. Length frequency distribution and mean fork length, weight, and condition of post-spawning Arctic charr migrating downstream in Willow Creek, 1976.

Length Interval (mm)	N	Percent (%)	Fork Length Mean (mm)	Weight Mean (g)	Weight St. Err. (g)	Condition Mean
470 - 489	1	0.6	477	850	.	0.78
490 - 509	1	0.6	499	925	.	0.74
510 - 529	1	0.6	514	1075	.	0.79
530 - 549	1	0.6	544	1100	.	0.68
550 - 569	9	5.0	563	1367	39	0.77
570 - 589	10	5.6	575	1375	49	0.72
590 - 609	7	3.9	601	1543	63	0.71
610 - 629	7	3.9	615	1646	21	0.71
630 - 649	17	9.5	640	1853	35	0.71
650 - 669	14	7.8	661	1966	43	0.68
670 - 689	29	16.2	680	2002	57	0.64
690 - 709	28	15.6	700	2210	65	0.65
710 - 729	21	11.7	718	2280	77	0.62
730 - 749	23	12.8	736	2636	108	0.66
750 - 769	4	2.2	758	2738	209	0.63
770 - 789	4	2.2	777	2988	88	0.64
790 - 809	1	0.6	791	3425	.	0.69
830 - 849	1	0.6	834	3700	.	0.64
	179	100.0	674	2066	41	0.67

Table 23. Length frequency distribution and mean fork length, weight, and condition of pre-spawning Arctic charr migrating upstream in Willow Creek, 1977.

Length Interval (mm)	N	Percent (%)	Fork Length Mean (mm)	Weight Mean (g)	Weight St. Err. (g)	Condition Mean
510 - 529	1	0.5	524	1400	.	0.97
530 - 549	2	1.0	542	1563	38	0.98
550 - 569	8	3.9	564	1778	31	0.99
570 - 589	26	12.6	581	1864	38	0.95
590 - 609	33	15.9	599	2102	28	0.98
610 - 629	45	21.7	619	2251	24	0.95
630 - 649	19	9.2	636	2454	35	0.96
650 - 669	16	7.7	660	2797	37	0.97
670 - 689	14	6.8	678	2984	85	0.96
690 - 709	15	7.2	699	3340	58	0.98
710 - 729	13	6.3	718	3546	86	1.00
730 - 749	4	1.9	735	3613	39	0.91
750 - 769	4	1.9	760	4088	159	0.93
770 - 789	5	2.4	777	4680	86	1.00
790 - 809	1	0.5	791	4600	.	0.93
810 - 829	1	0.5	820	5300	.	0.96
	207	100.0	639	2567	51	0.96

Table 24. Length frequency distribution and mean fork length, weight, and condition of post-spawning Arctic charr migrating downstream in Willow Creek, 1977.

Length Interval (mm)	N	Percent (%)	Fork Length Mean (mm)	Weight Mean (g)	Weight St. Err. (g)	Condition Mean
450 - 469	3	0.6	456	808	98	0.85
470 - 489	1	0.2	480	950	.	0.86
490 - 509	3	0.6	501	883	60	0.70
510 - 529	3	0.6	521	908	22	0.64
530 - 549	8	1.7	545	1156	75	0.71
550 - 569	13	2.8	560	1310	59	0.75
570 - 589	24	5.2	580	1426	33	0.73
590 - 609	43	9.2	599	1554	29	0.72
610 - 629	24	5.2	619	1717	44	0.73
630 - 649	23	4.9	638	1882	45	0.72
650 - 669	28	6.0	659	2124	34	0.74
670 - 689	52	11.2	680	2271	34	0.72
690 - 709	56	12.0	699	2447	31	0.72
710 - 729	63	13.5	718	2629	33	0.71
730 - 749	66	14.2	739	2818	27	0.70
750 - 769	35	7.5	757	2969	40	0.68
770 - 789	14	3.0	779	3338	80	0.71
790 - 809	7	1.5	799	3614	99	0.71
	466	100.0	678	2281	30	0.72

Table 25. Length frequency distribution and mean fork length, weight, and condition of pre-spawning Arctic charr migrating upstream in Willow Creek, 1978.

Length Interval (mm)	N	Percent (%)	Fork Length Mean (mm)	Weight Mean (g)	Weight St. Err. (g)	Condition Mean
490 - 509	1	0.5	508	1275	.	0.97
510 - 529	3	1.6	524	1383	30	0.96
530 - 549	12	6.3	542	1581	21	1.00
550 - 569	21	11.1	560	1757	26	1.00
570 - 589	33	17.4	580	1884	23	0.97
590 - 609	19	10.0	600	2122	39	0.98
610 - 629	24	12.6	617	2268	28	0.96
630 - 649	9	4.7	643	2508	82	0.94
650 - 669	13	6.8	661	2731	52	0.94
670 - 689	12	6.3	679	2792	81	0.89
690 - 709	16	8.4	700	3217	68	0.94
710 - 729	8	4.2	718	3472	112	0.94
730 - 749	12	6.3	739	3685	76	0.91
750 - 769	4	2.1	754	4019	186	0.94
770 - 789	2	1.1	778	4225	125	0.90
790 - 809	1	0.5	790	5125	.	1.04
	190	100.0	628	2436	54	0.96

Table 26. Length frequency distribution and mean fork length, weight, and condition of post-spawning Arctic charr migrating downstream in Willow Creek, 1978.

Length Interval (mm)	N	Percent (%)	Fork Length Mean (mm)	Weight Mean (g)	Weight St. Err. (g)	Condition Mean
490 - 509	1	0.4	503	750	.	0.59
510 - 529	2	0.8	526	1375	125	0.95
530 - 549	4	1.6	539	1194	51	0.76
550 - 569	12	4.7	563	1323	38	0.74
570 - 589	34	13.3	580	1443	22	0.74
590 - 609	43	16.8	600	1590	22	0.74
610 - 629	41	16.0	618	1746	18	0.74
630 - 649	18	7.0	638	1854	36	0.71
650 - 669	19	7.4	658	2079	74	0.73
670 - 689	17	6.6	679	2315	106	0.74
690 - 709	19	7.4	700	2445	88	0.71
710 - 729	24	9.4	718	2748	74	0.74
730 - 749	4	1.6	738	3000	161	0.75
750 - 769	10	3.9	759	2895	146	0.66
770 - 789	4	1.6	776	2938	315	0.63
790 - 809	1	0.4	801	2750	.	0.54
810 - 829	3	1.2	814	3275	250	0.61
	256	100.0	642	1965	37	0.73

Table 27. Length frequency distribution and mean fork length, weight, and condition of pre-spawning Arctic charr migrating upstream in Willow Creek, 1979.

Length Interval (mm)	N	Percent (%)	Fork Length Mean (mm)	Weight Mean (g)	Weight St. Err. (g)	Condition Mean
530 - 549	5	3.9	541	1358	34	0.86
550 - 569	16	12.6	561	1613	21	0.91
570 - 589	23	18.1	581	1690	29	0.86
590 - 609	16	12.6	598	1911	32	0.89
610 - 629	10	7.9	617	2123	47	0.91
630 - 649	8	6.3	641	2438	58	0.93
650 - 669	9	7.1	661	2529	64	0.88
670 - 689	9	7.1	679	2844	79	0.91
690 - 709	6	4.7	703	3157	97	0.91
710 - 729	16	12.6	720	3336	54	0.89
730 - 749	5	3.9	737	3420	131	0.85
750 - 769	3	2.4	761	3857	64	0.88
770 - 789	1	0.8	771	3980	.	0.87
	127	100.0	633	2331	65	0.89

Table 28. Length frequency distribution and mean fork length, weight, and condition of post-spawning Arctic charr migrating downstream in Willow Creek, 1979.

Length Interval (mm)	N	Percent (%)	Fork Length Mean (mm)	Weight Mean (g)	Weight St. Err. (g)	Condition Mean
450 - 469	3	1.7	455	770	15	0.82
470 - 489	1	0.6	489	930		0.80
510 - 529	4	2.2	523	1120	12	0.78
530 - 549	12	6.7	540	1210	26	0.77
550 - 569	22	12.4	560	1315	29	0.75
570 - 589	32	18.0	580	1486	22	0.76
590 - 609	24	13.5	599	1630	28	0.76
610 - 629	15	8.4	617	1688	44	0.72
630 - 649	6	3.4	640	1843	47	0.70
650 - 669	14	7.9	660	2014	75	0.70
670 - 689	11	6.2	679	2370	116	0.76
690 - 709	9	5.1	697	2524	92	0.74
710 - 729	9	5.1	720	2718	107	0.73
730 - 749	11	6.2	738	2977	160	0.74
750 - 769	2	1.1	761	3610	210	0.82
770 - 789	3	1.7	778	3800	265	0.81
	178	100.0	619	1837	50	0.75

Table 29. Length frequency distribution and mean fork length, weight, and condition of pre-spawning Arctic charr migrating upstream in Willow Creek, 1980.

Length Interval (mm)	N	Percent (%)	Fork Length Mean (mm)	Weight Mean (g)	Weight St. Err. (g)	Condition Mean
430 - 449	1	0.4	430	780	.	0.98
490 - 509	1	0.4	501	900	.	0.72
510 - 529	2	0.9	523	1300	20	0.91
530 - 549	6	2.6	538	1470	35	0.94
550 - 569	19	8.2	562	1656	35	0.93
570 - 589	32	13.8	582	1885	25	0.96
590 - 609	31	13.4	597	2013	26	0.94
610 - 629	36	15.5	618	2278	29	0.97
630 - 649	25	10.8	637	2428	39	0.94
650 - 669	25	10.8	658	2708	44	0.95
670 - 689	11	4.7	679	2881	83	0.92
690 - 709	19	8.2	698	3183	58	0.94
710 - 729	11	4.7	721	3610	46	0.96
730 - 749	6	2.6	741	3903	68	0.96
750 - 769	3	1.3	751	3773	115	0.89
770 - 789	1	0.4	780	4540	.	0.96
790 - 809	3	1.3	794	4353	153	0.87
	232	100.0	630	2422	46	0.95

Table 30. Length frequency distribution and mean fork length, weight, and condition of post-spawning Arctic charr migrating downstream in Willow Creek, 1980.

Length Interval (mm)	N	Percent (%)	Fork Length Mean (mm)	Weight Mean (g)	Weight St. Err. (g)	Condition Mean
410 - 429	2	1.8	425	645	5	0.84
430 - 449	1	0.9	430	780	.	0.98
450 - 469	2	1.8	460	765	45	0.78
470 - 489	2	1.8	479	790	110	0.72
490 - 509	2	1.8	500	985	35	0.79
510 - 529	2	1.8	521	985	95	0.70
530 - 549	11	9.9	542	1066	59	0.67
550 - 569	11	9.9	562	1117	41	0.63
570 - 589	16	14.4	580	1263	33	0.65
590 - 609	12	10.8	598	1376	56	0.64
610 - 629	6	5.4	620	1412	116	0.59
630 - 649	3	2.7	638	1607	221	0.62
650 - 669	7	6.3	657	1996	114	0.70
670 - 689	9	8.1	677	2072	107	0.67
690 - 709	10	9.0	700	2374	99	0.69
710 - 729	11	9.9	719	2605	75	0.70
730 - 749	3	2.7	739	2833	64	0.70
750 - 769	1	0.9	756	3060	.	0.71
	111	100.0	613	1619	62	0.67

Table 31. Length frequency distribution and mean fork length, weight, and condition of Arctic charr harvested from the upstream migration in the Nauyuk River, 1974 (sexes pooled).

Length Interval (mm)	N	Percent (%)	Fork Length Mean (mm)	Weight Mean (g)	Weight St. Err. (g)	Condition Mean
450 - 469	1	4.7	459	1000	.	1.03
490 - 509	2	9.5	499	1413	88	1.14
510 - 529	1	4.7	526	1600	.	1.10
530 - 549	2	9.5	536	2195	670	1.41
570 - 589	2	9.5	584	2463	188	1.24
590 - 609	1	4.7	602	2525	.	1.16
610 - 629	3	14.3	620	3067	506	1.28
630 - 649	1	4.7	643	3225	.	1.21
670 - 689	1	4.7	681	3950	.	1.25
690 - 709	5	23.8	698	3670	249	1.08
730 - 749	1	4.7	731	5175	.	1.32
770 - 789	1	4.7	782	5000	.	1.05
	21	100.0	620	2960	262	1.19

Table 32. Length frequency distribution and mean fork length, weight, and condition of Arctic charr harvested from the downstream migration in the Nauyuk River, 1975 (sexes pooled).

Length Interval (mm)	N	Percent (%)	Fork Length Mean (mm)	Weight Mean (g)	Weight St. Err. (g)	Condition Mean
470 - 489	1	1.4	475	950	.	0.89
490 - 509	1	1.4	502	975	.	0.77
530 - 549	2	2.9	535	1375	125	0.90
550 - 569	2	2.9	558	1625	125	0.93
570 - 589	4	5.7	581	2113	217	1.08
590 - 609	7	10.0	599	2236	53	1.04
610 - 629	5	7.1	615	2489	161	1.07
630 - 649	3	4.3	644	3033	22	1.14
650 - 669	6	8.6	658	2996	285	1.05
670 - 689	6	8.6	679	3263	252	1.04
690 - 709	9	12.9	698	3667	167	1.08
710 - 729	5	7.1	722	3355	277	0.89
730 - 749	5	7.1	744	3915	367	0.95
750 - 769	5	7.1	759	4264	522	0.98
770 - 789	3	4.3	781	4758	332	1.00
790 - 809	4	5.7	803	5556	372	1.07
830 - 849	2	2.9	839	5813	638	0.98
	70	100.0	676	3285	150	1.02

Table 33. Length frequency distribution and mean fork length, weight, and condition of Arctic charr harvested from the upstream migration in the Nauyuk River, 1975 (sexes pooled).

Length Interval (mm)	N	Percent (%)	Fork Length Mean (mm)	Weight Mean (g)	Weight St. Err. (g)	Condition Mean
410 - 429	1	1.6	427	950	.	1.22
490 - 509	1	1.6	490	1465	.	1.25
530 - 549	3	4.9	542	1975	75	1.24
550 - 569	2	3.3	565	2225	150	1.23
590 - 609	5	8.2	606	2787	111	1.25
630 - 649	2	3.3	644	3300	50	1.24
650 - 669	6	9.8	653	3231	162	1.16
670 - 689	5	8.2	680	3945	129	1.25
690 - 709	4	6.6	699	4279	239	1.25
710 - 729	9	14.8	723	4342	154	1.15
730 - 749	3	4.9	738	4189	357	1.04
750 - 769	6	9.8	759	5154	198	1.18
770 - 789	4	6.6	774	5420	496	1.17
790 - 809	2	3.3	804	6125	150	1.18
810 - 829	6	9.8	823	5246	540	0.94
830 - 849	1	1.6	835	5350	.	0.92
850 - 869	1	1.6	861	6825	.	1.07
	61	100.0	701	4093	172	1.16

Table 34. Length frequency distribution and mean fork length, weight, and condition of Arctic charr harvested from the downstream migration in the Nauyuk River, 1976 (sexes pooled).

Length Interval (mm)	N	Percent (%)	Fork Length Mean (mm)	Weight Mean (g)	Weight St. Err. (g)	Condition Mean
270 - 289	5	3.2	276	154	6	0.73
290 - 309	1	0.6	290	190	.	0.78
310 - 329	2	1.3	323	275	5	0.82
330 - 349	4	2.5	339	334	13	0.85
370 - 389	1	0.6	386	475	.	0.83
390 - 409	1	0.6	399	475	.	0.75
410 - 429	3	1.9	417	618	15	0.85
430 - 449	2	1.3	435	670	< 0	0.81
450 - 469	1	0.6	457	900	.	0.94
470 - 489	4	2.5	482	979	35	0.87
490 - 509	5	3.2	500	1139	61	0.91
510 - 529	2	1.3	520	1433	158	1.02
530 - 549	2	1.3	535	1470	80	0.96
550 - 569	8	5.1	558	1613	32	0.93
570 - 589	7	4.4	577	1911	59	0.99
590 - 609	9	5.7	599	2196	26	1.02
610 - 629	8	5.1	622	2434	101	1.01
630 - 649	13	8.2	638	2633	95	1.02
650 - 669	20	12.7	659	2844	65	0.99
670 - 689	11	7.0	676	2997	100	0.97
690 - 709	12	7.6	699	3482	220	1.02
710 - 729	12	7.6	719	3440	192	0.92
730 - 749	10	6.3	741	3680	282	0.90
750 - 769	2	1.3	752	4118	578	0.97
770 - 789	4	2.5	779	4488	365	0.95
790 - 809	5	3.2	802	4842	452	0.94
810 - 829	1	0.6	815	5740	.	1.06
830 - 849	3	1.9	839	6475	560	1.10
	158	100.0	619	2584	110	0.95

Table 35. Length frequency distribution and mean fork length, weight, and condition of Arctic charr harvested from the upstream migration in the Nauyuk River, 1976 (sexes pooled).

Length Interval (mm)	N	Percent (%)	Fork Length Mean (mm)	Weight Mean (g)	Weight St. Err. (g)	Condition Mean
470 - 489	2	1.1	486	1165	165	1.02
490 - 509	7	4.0	497	1369	36	1.12
510 - 529	6	3.4	521	1536	71	1.08
530 - 549	13	7.4	538	1643	54	1.05
550 - 569	5	2.8	560	1860	72	1.06
570 - 589	11	6.3	580	2204	46	1.13
590 - 609	16	9.1	599	2353	54	1.10
610 - 629	18	10.2	619	2591	45	1.09
630 - 649	20	11.4	639	2776	66	1.06
650 - 669	19	10.8	659	3031	106	1.06
670 - 689	16	9.1	680	3295	87	1.05
690 - 709	9	5.1	702	3613	155	1.04
710 - 729	10	5.7	719	3974	201	1.07
730 - 749	7	4.0	739	4177	229	1.04
750 - 769	4	2.3	764	4258	337	0.95
770 - 789	4	2.3	778	4113	546	0.88
790 - 809	5	2.8	800	4470	400	0.87
810 - 829	1	0.6	818	3880	.	0.71
830 - 849	1	0.6	830	3675	.	0.64
850 - 869	1	0.6	857	5180	.	0.82
870 - 889	1	0.6	871	4000	.	0.61
	176	100.0	641	2842	72	1.05

Table 36. Length frequency distribution and mean fork length, weight, and condition of Arctic charr harvested from the downstream migration in the Nauyuk River, 1977 (sexes pooled).

Length Interval (mm)	N	Percent (%)	Fork Length Mean (mm)	Weight Mean (g)	Weight St. Err. (g)	Condition Mean
470 - 489	1	0.4	480	1010	.	0.91
490 - 509	4	1.8	499	1150	52	0.92
510 - 529	4	1.8	523	1293	33	0.91
530 - 549	6	2.6	538	1552	91	0.99
550 - 569	10	4.4	558	1722	73	0.99
570 - 589	11	4.8	581	1945	124	0.99
590 - 609	20	8.8	600	2068	71	0.96
610 - 629	21	9.2	618	2148	44	0.91
630 - 649	23	10.1	638	2387	46	0.92
650 - 669	20	8.8	659	2539	110	0.89
670 - 689	19	8.3	677	2582	123	0.83
690 - 709	12	5.3	698	3198	169	0.94
710 - 729	22	9.6	721	3405	124	0.91
730 - 749	17	7.5	739	3851	217	0.95
750 - 769	13	5.7	757	3717	215	0.86
770 - 789	12	5.3	780	4601	233	0.97
790 - 809	6	2.6	797	4153	348	0.82
810 - 829	5	2.2	820	5410	367	0.98
830 - 849	1	0.4	836	5120	.	0.88
850 - 869	1	0.4	854	5210	.	0.84
	228	100.0	667	2827	73	0.92

Table 37. Length frequency distribution and mean fork length, weight, and condition of Arctic charr harvested from the upstream migration in the Nauyuk River, 1977 (sexes pooled).

Length Interval (mm)	N	Percent (%)	Fork Length Mean (mm)	Weight Mean (g)	Weight St. Err. (g)	Condition Mean
430 - 449	1	0.2	436	920	.	1.11
470 - 489	10	2.2	481	1270	32	1.14
490 - 509	26	5.6	499	1460	28	1.18
510 - 529	31	6.7	518	1593	22	1.14
530 - 549	36	7.8	540	1776	31	1.12
550 - 569	34	7.4	561	2019	28	1.14
570 - 589	53	11.5	578	2236	26	1.16
590 - 609	35	7.6	600	2407	45	1.11
610 - 629	36	7.8	620	2682	53	1.13
630 - 649	32	6.9	641	2931	49	1.11
650 - 669	28	6.1	659	3042	75	1.06
670 - 689	31	6.7	679	3443	51	1.10
690 - 709	32	6.9	700	3572	95	1.04
710 - 729	21	4.6	719	3751	101	1.01
730 - 749	19	4.1	741	4046	86	1.00
750 - 769	14	3.0	759	4324	219	0.99
770 - 789	11	2.4	779	4750	190	1.00
790 - 809	7	1.5	797	5234	204	1.03
810 - 829	3	0.7	816	5097	353	0.94
830 - 849	1	0.2	842	4860	.	0.81
	461	100.0	621	2729	47	1.10

Table 38. Length frequency distribution and mean fork length, weight, and condition of Arctic charr harvested from the downstream migration in the Nauyuk River, 1978 (sexes pooled).

Length Interval (mm)	N	Percent (%)	Fork Length Mean (mm)	Weight Mean (g)	Weight St. Err. (g)	Condition Mean
410 - 429	1	0.4	422	610	.	0.81
490 - 509	1	0.4	496	1000	.	0.82
510 - 529	4	1.7	520	1163	37	0.83
530 - 549	16	6.9	541	1491	29	0.94
550 - 569	17	7.3	559	1585	54	0.91
570 - 589	24	10.3	581	1758	36	0.90
590 - 609	21	9.0	601	1974	50	0.91
610 - 629	33	14.2	620	2077	63	0.87
630 - 649	27	11.6	638	2441	43	0.94
650 - 669	21	9.0	659	2581	52	0.90
670 - 689	16	6.9	678	2762	119	0.88
690 - 709	16	6.9	699	3271	79	0.96
710 - 729	12	5.2	721	3366	123	0.90
730 - 749	11	4.7	741	3544	187	0.87
750 - 769	6	2.6	762	3707	387	0.84
770 - 789	6	2.6	778	3993	212	0.85
810 - 829	1	0.4	812	5000	.	0.93
	233	100.0	636	2388	53	0.90

Table 39. Length frequency distribution and mean fork length, weight, and condition of Arctic charr harvested from the upstream migration in the Nauyuk River, 1978 (sexes pooled).

Length Interval (mm)	N	Percent (%)	Fork Length Mean (mm)	Weight Mean (g)	Weight St. Err. (g)	Condition Mean
450 - 469	2	0.7	456	960	20	1.01
470 - 489	2	0.7	480	1025	85	0.93
490 - 509	5	1.6	499	1150	24	0.93
510 - 529	14	4.6	518	1262	33	0.91
530 - 549	22	7.2	538	1452	24	0.93
550 - 569	30	9.8	559	1661	26	0.95
570 - 589	32	10.4	579	1879	29	0.97
590 - 609	31	10.1	600	2019	44	0.94
610 - 629	19	6.2	620	2255	72	0.95
630 - 649	26	8.5	639	2424	71	0.93
650 - 669	30	9.8	658	2629	64	0.92
670 - 689	22	7.2	677	3089	83	1.00
690 - 709	16	5.2	700	3194	109	0.93
710 - 729	14	4.6	716	3486	86	0.95
730 - 749	22	7.2	736	3609	101	0.90
750 - 769	10	3.3	757	3895	129	0.90
770 - 789	8	2.6	778	4353	211	0.92
790 - 809	2	0.7	802	3040	100	0.59
	307	100.0	629	2423	50	0.94

Table 40. Length frequency distribution and mean fork length, weight, and condition of Arctic charr harvested from the downstream migration in the Nauyuk River, 1979 (sexes pooled). The Inuit harvest from the upstream migration was not sampled.

Length Interval (mm)	N	Percent (%)	Fork Length Mean (mm)	Weight Mean (g)	Weight St. Err. (g)	Condition Mean
490 - 509	2	1.3	503	980	70	0.77
510 - 529	1	0.6	518	1160	.	0.83
530 - 549	3	1.9	543	1363	52	0.85
550 - 569	3	1.9	564	1643	52	0.92
570 - 589	7	4.5	579	1620	82	0.83
590 - 609	18	11.5	599	1888	47	0.88
610 - 629	18	11.5	617	2131	47	0.91
630 - 649	9	5.7	639	2222	90	0.85
650 - 669	18	11.5	659	2502	54	0.87
670 - 689	22	14.0	677	2706	93	0.87
690 - 709	19	12.1	700	2965	87	0.86
710 - 729	14	8.9	719	3271	111	0.88
730 - 749	6	3.8	739	3032	374	0.75
750 - 769	8	5.1	757	3661	217	0.84
770 - 789	6	3.8	775	4115	141	0.88
790 - 809	1	0.6	795	4450	.	0.89
810 - 829	1	0.6	815	5080	.	0.94
830 - 849	1	0.6	840	5500	.	0.93
	157	100.0	664	2610	66	0.87

Table 41. Length frequency distribution and mean fork length, weight, and condition of Arctic charr harvested from the downstream migration in the Nauyuk River, 1980 (sexes pooled). The Inuit harvest from the upstream migration was not sampled.

Length Interval (mm)	N	Percent (%)	Fork Length Mean (mm)	Weight Mean (g)	Weight St. Err. (g)	Condition Mean
530 - 549	3	9.1	548	1547	32	0.94
550 - 569	3	9.1	561	1457	209	0.82
570 - 589	2	6.1	578	1730	< 0	0.90
590 - 609	6	18.2	598	2095	56	0.98
610 - 629	5	15.2	619	1956	134	0.83
630 - 649	2	6.1	643	2380	20	0.90
670 - 689	2	6.1	679	2645	575	0.84
690 - 709	4	12.1	696	2803	287	0.83
710 - 729	4	12.1	717	2895	275	0.78
750 - 769	1	3.0	750	2880	.	0.68
770 - 789	1	3.0	782	4370	.	0.91
	33	100.0	636	2270	123	0.87

Table 42. Length frequency distribution and mean fork length, weight, and condition of Arctic charr harvested from the upstream migration in the Nauyuk River, 1984 (sexes pooled). The Inuit harvest from the downstream migration was not sampled.

Length Interval (mm)	N	Percent (%)	Fork Length Mean (mm)	Weight Mean (g)	Weight St. Err. (g)	Condition Mean
450 - 469	1	10.0	450	1200	.	1.32
490 - 509	3	30.0	504	1693	85	1.33
510 - 529	1	10.0	528	1780	.	1.21
570 - 589	2	20.0	583	2930	150	1.48
590 - 609	1	10.0	600	3180	.	1.47
690 - 709	1	10.0	695	4000	.	1.19
730 - 749	1	10.0	740	4420	.	1.09
	10	100.0	569	2552	349	1.32

Table 43. Sex-specific length frequency distribution and mean fork length, weight, and condition of Arctic charr harvested from the downstream migration in the Nauyuk River, 1975.

Length Interval (mm)	N	Percent (%)	Fork Length Mean (mm)	Weight Mean (g)	Weight St. Err (g)	Condition Mean
Females						
470 - 489	1	2.4	475	950	.	0.89
550 - 569	1	2.4	560	1750	.	1.00
570 - 589	1	2.4	578	2025	.	1.05
590 - 609	3	7.1	600	2317	44	1.07
610 - 629	3	7.1	612	2717	71	1.18
630 - 649	3	7.1	644	3033	22	1.14
650 - 669	5	11.9	658	3000	348	1.05
670 - 689	5	11.9	679	3255	309	1.04
690 - 709	7	16.7	699	3579	159	1.04
710 - 729	4	9.5	725	3275	342	0.86
730 - 749	3	7.1	744	3725	591	0.90
750 - 769	4	9.5	757	4188	667	0.97
770 - 789	1	2.4	784	5325	.	1.11
830 - 849	1	2.4	832	5175	.	0.90
	42	100.0	679	3257	153	1.02
Males						
530 - 549	2	9.5	535	1375	125	0.90
570 - 589	1	4.8	589	2750	.	1.35
590 - 609	3	14.3	602	2250	29	1.03
610 - 629	1	4.8	629	2375	.	0.95
650 - 669	1	4.8	654	2975	.	1.06
670 - 689	1	4.8	675	3300	.	1.07
690 - 709	2	9.5	695	3975	600	1.18
710 - 729	1	4.8	710	3675	.	1.03
730 - 749	1	4.8	745	4600	.	1.11
750 - 769	1	4.8	769	4570	.	1.00
770 - 789	2	9.5	779	4475	300	0.95
790 - 809	4	19.0	803	5556	372	1.07
830 - 849	1	4.8	846	6450	.	1.07
	21	100.0	698	3777	335	1.05

Table 44. Sex-specific length frequency distribution and mean fork length, weight, and condition of Arctic charr harvested from the upstream migration in the Nauyuk River, 1975.

Length Interval (mm)	N	Percent (%)	Fork Length Mean (mm)	Weight Mean (g)	Weight St. Err (g)	Condition Mean
Females						
550 - 569	1	14.3	563	2075	.	1.16
630 - 649	1	14.3	648	3350	.	1.23
670 - 689	1	14.3	675	3925	.	1.28
710 - 729	2	28.6	724	3900	450	1.03
730 - 749	1	14.3	735	4750	.	1.20
750 - 769	1	14.3	760	5125	.	1.17
	7	100.0	690	3861	386	1.16
Males						
650 - 669	1	20.0	650	3700	.	1.35
670 - 689	1	20.0	689	4450	.	1.36
770 - 789	1	20.0	776	4825	.	1.03
810 - 829	2	40.0	827	5725	575	1.01
	5	100.0	754	4885	428	1.15

Table 45. Sex-specific length frequency distribution and mean fork length, weight, and condition of Arctic charr harvested from the downstream migration in the Nauyuk River, 1976.

Length Interval (mm)	N	Percent (%)	Fork Length Mean (mm)	Weight Mean (g)	Weight St. Err (g)	Condition Mean
Females						
450 - 469	1	1.6	457	900	.	0.94
470 - 489	1	1.6	479	940	.	0.86
490 - 509	1	1.6	503	1340	.	1.05
530 - 549	1	1.6	532	1390	.	0.92
550 - 569	4	6.3	552	1671	45	0.99
570 - 589	2	3.2	578	1993	33	1.03
590 - 609	4	6.3	596	2188	46	1.04
610 - 629	7	11.1	622	2391	106	0.99
630 - 649	7	11.1	640	2602	114	0.99
650 - 669	14	22.2	661	2899	84	1.00
670 - 689	6	9.5	674	3066	97	1.00
690 - 709	6	9.5	698	3534	351	1.04
710 - 729	5	7.9	720	3531	285	0.95
730 - 749	3	4.8	740	3127	588	0.77
770 - 789	1	1.6	770	4340	.	0.95
	63	100.0	645	2708	100	0.99
Males						
410 - 429	1	1.8	415	640	.	0.90
430 - 449	2	3.5	435	670	< 0	0.81
470 - 489	1	1.8	484	970	.	0.86
490 - 509	3	5.3	501	1125	36	0.89
510 - 529	1	1.8	527	1590	.	1.09
530 - 549	1	1.8	538	1550	.	1.00
550 - 569	3	5.3	564	1538	20	0.86
570 - 589	4	7.0	578	1948	50	1.01
590 - 609	5	8.8	601	2203	33	1.01
630 - 649	4	7.0	636	2783	84	1.08
650 - 669	5	8.8	656	2754	82	0.97
670 - 689	4	7.0	680	3015	215	0.96
690 - 709	4	7.0	699	3870	160	1.13
710 - 729	3	5.3	720	3947	41	1.06
730 - 749	5	8.8	743	4302	208	1.05
750 - 769	2	3.5	752	4118	578	0.97
770 - 789	2	3.5	779	4925	575	1.04
790 - 810	3	5.3	799	5330	125	1.04
810 - 829	1	1.8	815	5740	.	1.06
830 - 849	3	5.3	839	6475	560	1.10
	57	100.0	655	3121	208	1.01

Table 46. Sex-specific length frequency distribution and mean fork length, weight, and condition of Arctic charr harvested from the upstream migration in the Nauyuk River, 1976.

Length Interval (mm)	N	Percent (%)	Fork Length Mean (mm)	Weight Mean (g)	Weight St. Err (g)	Condition Mean
Females						
610 - 629	4	40.0	617	2665	46	1.14
630 - 649	3	30.0	644	3010	86	1.13
650 - 669	2	20.0	658	2690	930	0.95
690 - 709	1	10.0	705	3370	.	0.96
	10	100.0	642	2844	161	1.08
Males						
670 - 689	3	42.9	678	3403	55	1.09
690 - 709	1	14.3	706	3780	.	1.07
710 - 729	2	28.6	717	4480	40	1.22
730 - 749	1	14.3	732	4800	.	1.22
	7	100.0	701	3964	230	1.14

Table 47. Sex-specific length frequency distribution and mean fork length, weight, and condition of Arctic charr harvested from the downstream migration in the Nauyuk River, 1977.

Length Interval (mm)	N	Percent (%)	Fork Length Mean (mm)	Weight Mean (g)	Weight St. Err (g)	Condition Mean
Females						
490 - 509	3	4.2	502	1173	66	0.93
510 - 529	1	1.4	526	1360	.	0.93
530 - 549	2	2.8	541	1565	135	0.99
550 - 569	6	8.5	560	1728	86	0.99
570 - 589	7	9.9	580	1874	185	0.96
590 - 609	5	7.0	601	2170	100	1.00
610 - 629	6	8.5	616	2253	102	0.96
630 - 649	10	14.1	638	2403	76	0.93
650 - 669	8	11.3	657	2235	200	0.79
670 - 689	8	11.3	676	2455	161	0.79
690 - 709	2	2.8	701	2730	430	0.80
710 - 729	2	2.8	721	3165	155	0.85
730 - 749	6	8.5	738	3968	329	0.99
750 - 769	3	4.2	760	3990	180	0.91
770 - 789	1	1.4	775	4820	.	1.04
810 - 829	1	1.4	815	5530	.	1.02
	71	100.0	640	2470	111	0.92
Males						
510 - 529	1	1.3	525	1330	.	0.92
530 - 549	3	3.8	538	1587	179	1.02
550 - 569	4	5.1	555	1713	147	1.00
570 - 589	3	3.8	581	2093	158	1.07
590 - 609	10	12.7	600	2086	120	0.97
610 - 629	6	7.6	621	2118	73	0.89
630 - 649	3	3.8	639	2547	84	0.98
650 - 669	2	2.5	657	2940	140	1.04
670 - 689	4	5.1	676	3030	348	0.98
690 - 709	7	8.9	697	3200	239	0.94
710 - 729	7	8.9	719	3726	178	1.00
730 - 749	3	3.8	742	4483	743	1.09
750 - 769	6	7.6	755	3967	380	0.92
770 - 789	9	11.4	781	4774	270	1.00
790 - 809	5	6.3	796	4440	24[illegible]	0.88
810 - 829	4	5.1	822	5380	472	0.97
830 - 849	1	1.3	836	5120	.	0.88
850 - 869	1	1.3	854	5210	.	0.84
	79	100.0	689	3306	148	0.97

Table 48. Sex-specific length frequency distribution and mean fork length, weight, and condition of Arctic charr harvested from the upstream migration in the Nauyuk River, 1977.

Length Interval (mm)	N	Percent (%)	Fork Length Mean (mm)	Weight Mean (g)	Weight St. Err (g)	Condition Mean
Females						
470 - 489	5	2.4	481	1318	51	1.18
490 - 509	14	6.6	499	1479	44	1.19
510 - 529	17	8.0	518	1627	30	1.17
530 - 549	15	7.1	542	1849	58	1.16
550 - 569	16	7.5	561	1997	30	1.13
570 - 589	31	14.6	576	2220	34	1.16
590 - 609	20	9.4	599	2377	59	1.10
610 - 629	15	7.1	619	2577	107	1.09
630 - 649	19	9.0	641	2906	76	1.10
650 - 669	16	7.5	660	2943	110	1.02
670 - 689	11	5.2	679	3296	82	1.05
690 - 709	13	6.1	699	3358	99	0.98
710 - 729	9	4.2	719	3589	175	0.97
730 - 749	3	1.4	740	3707	343	0.91
750 - 769	3	1.4	757	4080	188	0.94
770 - 789	2	0.9	781	4435	15	0.93
790 - 809	2	0.9	798	5520	100	1.09
830 - 849	1	0.5	842	4860	.	0.81
	212	100.0	607	2511	56	1.10
Males						
470 - 489	2	1.1	481	1220	50	1.10
490 - 509	9	5.1	499	1419	39	1.14
510 - 529	9	5.1	521	1579	37	1.12
530 - 549	14	7.9	539	1764	28	1.12
550 - 569	13	7.3	562	2082	35	1.17
570 - 589	14	7.9	581	2206	32	1.12
590 - 609	12	6.7	602	2519	61	1.15
610 - 629	18	10.1	620	2772	47	1.16
630 - 649	5	2.8	640	2988	20	1.14
650 - 669	8	4.5	657	3211	107	1.13
670 - 689	15	8.4	679	3601	65	1.15
690 - 709	15	8.4	701	3899	82	1.13
710 - 729	9	5.1	719	3957	137	1.07
730 - 749	11	6.2	740	4142	111	1.02
750 - 769	9	5.1	758	4478	318	1.03
770 - 789	9	5.1	779	4820	227	1.02
790 - 809	4	2.2	798	5095	351	1.01
810 - 829	2	1.1	819	4995	585	0.91
	178	100.0	640	3037	85	1.11

Table 49. Sex-specific length frequency distribution and mean fork length, weight, and condition of Arctic charr harvested from the downstream migration in the Nauyuk River, 1978.

Length Interval (mm)	N	Percent (%)	Fork Length Mean (mm)	Weight Mean (g)	Weight St. Err (g)	Condition Mean
Females						
410 - 429	1	0.9	422	610	.	0.81
490 - 509	1	0.9	496	1000	.	0.82
510 - 529	3	2.6	522	1163	52	0.82
530 - 549	15	12.8	541	1487	30	0.94
550 - 569	9	7.7	559	1606	82	0.92
570 - 589	17	14.5	580	1777	45	0.91
590 - 609	14	12.0	601	1944	74	0.90
610 - 629	21	17.9	620	2005	89	0.84
630 - 649	11	9.4	639	2561	79	0.98
650 - 669	10	8.5	658	2484	63	0.87
670 - 689	8	6.8	680	2819	208	0.90
690 - 709	4	3.4	696	3008	44	0.89
710 - 729	2	1.7	724	3220	200	0.85
730 - 749	1	0.9	732	3180	.	0.81
	117	100.0	606	2039	54	0.90
Males						
510 - 529	1	0.9	515	1160	.	0.85
530 - 549	1	0.9	547	1560	.	0.95
550 - 569	8	7.1	559	1561	74	0.89
570 - 589	6	5.4	582	1738	65	0.89
590 - 609	7	6.3	600	2033	24	0.94
610 - 629	11	9.8	620	2233	65	0.94
630 - 649	16	14.3	637	2358	37	0.91
650 - 669	10	8.9	659	2728	47	0.95
670 - 689	8	7.1	677	2705	128	0.87
690 - 709	12	10.7	700	3359	91	0.98
710 - 729	10	8.9	720	3395	144	0.91
730 - 749	9	8.0	743	3760	105	0.92
750 - 769	6	5.4	762	3707	387	0.84
770 - 789	6	5.4	778	3993	212	0.85
810 - 829	1	0.9	812	5000	.	0.93
	112	100.0	666	2771	80	0.91

Table 50. Sex-specific length frequency distribution and mean fork length, weight, and condition of Arctic charr harvested from the upstream migration in the Nauyuk River, 1978.

Length Interval (mm)	N	Percent (%)	Fork Length Mean (mm)	Weight Mean (g)	Weight St. Err (g)	Condition Mean
Females						
450 - 469	2	1.3	456	960	20	1.01
470 - 489	1	0.7	481	1110	.	1.00
490 - 509	4	2.7	501	1153	31	0.92
510 - 529	10	6.7	519	1273	39	0.91
530 - 549	18	12.1	537	1453	26	0.94
550 - 569	16	10.7	557	1663	39	0.96
570 - 589	18	12.1	580	1889	48	0.97
590 - 609	17	11.4	598	1966	58	0.92
610 - 629	14	9.4	618	2191	87	0.93
630 - 649	16	10.7	641	2334	95	0.88
650 - 669	13	8.7	658	2405	98	0.84
670 - 689	9	6.0	673	2921	135	0.96
690 - 709	4	2.7	700	2693	276	0.79
710 - 729	2	1.3	712	3605	215	1.00
730 - 749	2	1.3	737	3055	55	0.76
750 - 769	1	0.7	757	3700	.	0.85
770 - 789	2	1.3	781	4285	95	0.90
	149	100.0	599	2030	53	0.92
Males						
470 - 489	1	0.6	478	940	.	0.86
490 - 509	1	0.6	490	1140	.	0.97
510 - 529	4	2.5	516	1235	72	0.90
530 - 549	4	2.5	543	1448	61	0.90
550 - 569	14	8.9	561	1659	33	0.94
570 - 589	14	8.9	578	1865	29	0.97
590 - 609	14	8.9	602	2083	64	0.95
610 - 629	5	3.2	625	2434	92	1.00
630 - 649	10	6.4	636	2569	91	1.00
650 - 669	17	10.8	658	2801	58	0.98
670 - 689	13	8.3	679	3205	97	1.02
690 - 709	12	7.6	700	3362	68	0.98
710 - 729	12	7.6	717	3466	96	0.94
730 - 749	20	12.7	736	3664	102	0.92
750 - 769	8	5.1	758	3951	156	0.91
770 - 789	6	3.8	777	4375	286	0.93
790 - 809	2	1.3	802	3040	100	0.59
	157	100.0	657	2787	72	0.95

Table 51. Sex-specific length frequency distribution and mean fork length, weight, and condition of Arctic charr harvested from the downstream migration in the Nauyuk River, 1979. The Inuit harvest from the upstream migration was not sampled.

Length Interval (mm)	N	Percent (%)	Fork Length Mean (mm)	Weight Mean (g)	Weight St. Err (g)	Condition Mean
Females						
490 - 509	1	1.1	503	910	.	0.72
510 - 529	1	1.1	518	1160	.	0.83
530 - 549	1	1.1	540	1260	.	0.80
550 - 569	3	3.3	564	1643	52	0.92
570 - 589	5	5.5	578	1616	118	0.83
590 - 609	15	16.5	600	1913	53	0.89
610 - 629	16	17.6	617	2147	52	0.92
630 - 649	9	9.9	639	2222	90	0.85
650 - 669	9	9.9	657	2474	66	0.87
670 - 689	14	15.4	676	2571	97	0.83
690 - 709	9	9.9	700	2758	142	0.80
710 - 729	4	4.4	721	2975	306	0.79
730 - 749	3	3.3	737	2527	503	0.63
750 - 769	1	1.1	751	2270	.	0.54
	91	100.0	640	2244	54	0.85
Males						
490 - 509	1	1.5	502	1050	.	0.83
530 - 549	2	3.1	545	1415	15	0.87
570 - 589	2	3.1	581	1630	20	0.83
590 - 609	3	4.6	599	1763	64	0.82
610 - 629	2	3.1	617	2005	65	0.85
650 - 669	91	3.8	661	2530	89	0.87
670 - 689	81	2.3	680	2941	169	0.93
690 - 709	10	15.4	701	3151	66	0.92
710 - 729	10	15.4	719	3390	83	0.91
730 - 749	3	4.6	740	3537	436	0.87
750 - 769	6	9.2	756	3843	118	0.89
770 - 789	6	9.2	775	4115	141	0.88
790 - 809	1	1.5	795	4450	.	0.89
810 - 829	1	1.5	815	5080	.	0.94
830 - 849	1	1.5	840	5500	.	0.93
	65	100.0	696	3101	113	0.89

Table 52. Sex-specific length frequency distribution and mean fork length, weight, and condition of Arctic charr harvested from the downstream migration in the Nauyuk River, 1980. The Inuit harvest from the upstream migration was not sampled.

Length Interval (mm)	N	Percent (%)	Fork Length Mean (mm)	Weight Mean (g)	Weight St. Err (g)	Condition Mean
Females						
530 - 549	3	16.7	548	1547	32	0.94
550 - 569	3	16.7	561	1457	209	0.82
570 - 589	2	11.1	578	1730	< 0	0.90
590 - 609	5	27.8	599	2128	56	0.99
610 - 629	3	16.7	616	1990	176	0.85
630 - 649	1	5.6	643	2360	.	0.89
690 - 709	1	5.6	691	2820	.	0.85
	18	100.0	592	1903	97	0.91
Males						
590 - 609	1	6.7	592	1930	.	0.93
610 - 629	2	13.3	623	1905	285	0.79
630 - 649	1	6.7	643	2400	.	0.90
670 - 689	2	13.3	679	2645	575	0.84
690 - 709	3	20.0	697	2797	405	0.82
710 - 729	4	26.7	717	2895	275	0.78
750 - 769	1	6.7	750	2880	.	0.68
770 - 789	1	6.7	782	4370	.	0.91
	15	100.0	689	2710	191	0.82

Table 53. Age frequency distribution and mean fork length, weight, and condition of Arctic Charr harvested from the downstream migration in the Nauyuk River, 1974 (sexes pooled).

Age	N	Percent	Fork Length		Weight		Condition
			Mean	St. Err.	Mean	St. Err.	Mean
(y)		(%)	(mm)		(g)		
4	3	0.9	205	25.4	81	27	0.88
5	36	10.9	260	13.8	198	39	0.84
6	71	21.5	266	9.9	218	34	0.83
7	27	8.2	352	26.5	573	139	0.84
8	28	8.5	533	12.3	1458	120	0.91
9	40	12.1	559	11.1	1739	129	0.94
10	29	8.8	613	15.9	2304	172	0.95
11	17	5.1	690	22.6	3609	330	1.04
12	15	4.5	702	16.6	3587	243	1.02
13	14	4.2	726	16.9	3473	287	0.89
14	9	2.7	763	14.6	4403	269	0.98
15	11	3.3	759	12.5	3573	427	0.80
16	13	3.9	764	13.8	3435	382	0.75
17	6	1.8	747	15.0	3329	428	0.79
18	5	1.5	823	32.3	5670	995	0.98
19	5	1.5	735	31.6	3035	832	0.72
20	1	0.3	864	.	5800	.	0.90
21	1	0.3	680	.	1900	.	0.60
	331	100.0	498	11.7	1734	93	0.89

Table 54. Age frequency distribution and mean fork length, weight, and condition of Arctic Charr harvested from the upstream migration in the Nauyuk River, 1974 (sexes pooled).

Age (y)	N	Percent (%)	Fork Length Mean (mm)	Fork Length St. Err. (mm)	Weight Mean (g)	Weight St. Err. (g)	Condition Mean
3	1	0.7	172	.	43	.	0.85
4	1	0.7	187	.	78	.	1.19
5	4	2.7	445	38.4	1103	225	1.20
6	9	6.0	478	8.8	1271	82	1.15
7	6	4.0	499	29.2	1513	256	1.13
8	21	14.0	568	14.2	2293	180	1.19
9	27	18.0	587	11.8	2412	161	1.15
10	28	18.7	605	12.1	2630	145	1.17
11	22	14.7	694	12.2	3757	169	1.12
12	9	6.0	670	22.7	3419	272	1.13
13	10	6.7	683	20.7	3618	321	1.11
14	5	3.3	711	35.4	3565	293	1.01
15	3	2.0	775	50.2	4383	953	0.91
16	2	1.3	717	23.5	3338	563	0.90
18	2	1.3	813	41.0	4700	25	0.89
	150	100.0	608	8.9	2724	95	0.13

Table 55. Age frequency distribution and mean fork length, weight, and condition of Arctic Charr harvested from the downstream migration in the Nauyuk River, 1975 (sexes pooled).

Age	N	Percent	Fork Length		Weight		Condition
			Mean	St. Err.	Mean	St. Err.	Mean
(y)		(%)	(mm)		(g)		
3	2	0.8	143	24.5	24	12	0.74
4	6	2.5	186	10.0	55	10	0.82
5	28	11.8	215	7.1	89	11	0.81
6	20	8.4	266	20.1	222	64	0.84
7	13	5.5	394	30.4	633	111	0.93
8	12	5.1	513	14.9	1380	135	0.98
9	8	3.4	556	31.6	1685	230	0.91
10	27	11.4	611	10.8	2376	141	1.01
11	26	11.0	646	12.3	2738	173	0.99
12	32	13.5	671	12.8	3202	194	1.03
13	14	5.9	674	22.9	3163	259	1.00
14	16	6.8	715	15.0	3573	328	0.95
15	10	4.2	678	25.5	2846	301	0.89
16	7	3.0	687	36.5	2900	402	0.84
17	6	2.5	739	13.4	3538	103	0.89
18	7	3.0	732	20.0	3354	508	0.84
20	1	0.4	737	.	2800	.	0.70
21	1	0.4	738	.	3050	.	0.76
22	1	0.4	773	.	3025	.	0.65
	237	100.0	538	13.1	2056	98	0.93

Table 56. Age frequency distribution and mean fork length, weight, and condition of Arctic Charr harvested from the upstream migration in the Nauyuk River, 1975 (sexes pooled).

Age	N	Percent	Fork Length		Weight		Condition
			Mean	St. Err.	Mean	St. Err.	Mean
(y)		(%)	(mm)		(g)		
3	2	2.4	245	60.0	189	132	1.02
4	5	6.0	244	25.1	137	55	0.79
5	1	1.2	338	.	562	.	1.46
6	1	1.2	332	.	300	.	0.82
7	10	12.0	454	24.9	1166	193	1.13
8	5	6.0	464	51.9	1377	499	1.16
9	5	6.0	577	9.6	2381	188	1.23
10	10	12.0	623	16.1	2956	261	1.20
11	9	10.8	651	24.2	3639	500	1.26
12	10	12.0	701	20.7	4224	373	1.20
13	9	10.8	750	27.0	4461	451	1.07
14	4	4.8	783	21.1	5413	370	1.13
15	5	6.0	751	8.8	4696	77	1.11
16	4	4.8	768	32.3	4969	708	1.08
17	3	3.6	752	40.6	4414	394	1.05
	83	100.0	605	18.8	3076	204	1.13

Table 57. Age frequency distribution and mean fork length, weight, and condition of Arctic Charr harvested from the downstream migration in the Nauyuk River, 1976 (sexes pooled).

Age	N	Percent	Fork Length		Weight		Condition
			Mean	St. Err.	Mean	St. Err.	Mean
(y)		(%)	(mm)		(g)		
1	1	0.6	105	.	8	.	0.69
3	3	1.8	209	26.5	78	29	0.79
4	4	2.3	270	25.9	169	43	0.81
5	6	3.5	293	15.6	211	36	0.79
6	10	5.8	386	37.2	668	215	0.85
7	15	8.8	486	30.1	1295	243	0.91
8	12	7.0	573	17.1	1940	203	0.98
9	21	12.3	606	15.0	2290	192	0.98
10	36	21.1	658	9.9	2970	138	1.02
11	23	13.5	678	15.2	3256	242	1.00
12	10	5.8	683	22.8	3123	343	0.95
13	20	11.7	720	18.4	3757	380	0.95
14	4	2.3	720	22.7	3593	546	0.97
15	1	0.6	747	.	3980	.	0.95
16	2	1.2	718	18.5	2215	215	0.61
17	1	0.6	628	.	2540	.	1.03
18	1	0.6	770	.	4340	.	0.95
20	1	0.6	513	.	1275	.	0.94
	171	100.0	595	11.8	2449	112	0.95

Table 58. Age frequency distribution and mean fork length, weight, and condition of Arctic Charr harvested from the upstream migration in the Nauyuk River, 1976 (sexes pooled).

Age	N	Percent	Fork Length		Weight		Condition
			Mean	St. Err.	Mean	St. Err.	Mean
(y)		(%)	(mm)		(g)		
6	1	2.6	423	.	800	.	1.06
7	2	5.1	496	45.5	1328	473	1.04
8	4	10.3	551	34.8	1978	379	1.14
9	6	15.4	536	63.5	1990	418	1.08
10	12	30.8	658	12.8	3112	281	1.07
11	10	25.6	653	16.7	3183	286	1.12
12	1	2.6	610	.	2530	.	1.11
13	1	2.6	795	.	3270	.	0.65
14	1	2.6	746	.	3280	.	0.79
16	1	2.6	705	.	3370	.	0.96
	39	100.0	618	16.4	2690	171	1.07

Table 59. Age frequency distribution and mean fork length, weight, and condition of Arctic Charr harvested from the downstream migration in the Nauyuk River, 1977 (sexes pooled).

Age	N	Percent	Fork Length		Weight		Condition
			Mean	St. Err.	Mean	St. Err.	Mean
(y)		(%)	(mm)		(g)		
4	1	0.4	187	.	48	.	0.73
7	4	1.8	557	21.3	1575	162	0.90
8	14	6.1	566	11.4	1774	125	0.96
9	23	10.1	585	10.2	2067	119	1.01
10	32	14.0	618	12.3	2333	169	0.95
11	59	25.9	683	8.0	3069	144	0.93
12	38	16.7	707	10.9	3497	202	0.96
13	22	9.6	705	11.4	3019	199	0.85
14	23	10.1	716	11.0	2999	191	0.80
15	10	4.4	747	20.3	3565	356	0.83
16	1	0.4	737	.	3540	.	0.88
18	1	0.4	716	.	2070	.	0.56
	228	100.0	665	5.7	2825	75	0.92

Table 60. Age frequency distribution and mean fork length, weight, and condition of Arctic Charr harvested from the upstream migration in the Nauyuk River, 1977 (sexes pooled).

Age	N	Percent	Fork Length		Weight		Condition
			Mean	St. Err.	Mean	St. Err.	Mean
(y)		(%)	(mm)		(g)		
5	1	0.2	472	.	1130	.	1.07
6	4	0.9	461	18.1	1243	225	1.24
7	14	3.2	527	22.3	1812	168	1.19
8	46	10.4	552	5.5	2000	69	1.17
9	118	26.6	575	5.7	2220	67	1.13
10	70	15.8	611	8.0	2662	104	1.13
11	88	19.8	654	6.7	3097	93	1.09
12	53	11.9	685	9.9	3395	139	1.03
13	26	5.9	717	13.5	3810	207	1.02
14	10	2.3	693	30.4	3365	425	0.97
15	7	1.6	690	20.3	2963	394	0.88
16	4	0.9	692	14.8	3378	179	1.02
17	3	0.7	661	43.0	2833	389	0.98
	444	100.0	619	4.0	2702	48	1.10

Table 61. Age frequency distribution and mean fork length, weight, and condition of Arctic Charr harvested from the downstream migration in the Nauyuk River, 1978 (sexes pooled).

Age	N	Percent	Fork Length		Weight		Condition
			Mean	St. Err.	Mean	St. Err.	Mean
(y)		(%)	(mm)		(g)		
7	5	2.0	582	28.9	1772	304	0.86
8	18	7.2	581	14.0	1878	128	0.93
9	67	26.7	603	6.6	2129	79	0.95
10	61	24.3	637	8.0	2433	104	0.91
11	50	19.9	680	9.2	2898	126	0.89
12	25	10.0	684	11.7	2967	199	0.90
13	10	4.0	709	19.7	3090	336	0.83
14	8	3.2	716	25.8	3154	396	0.85
15	5	2.0	707	21.4	2872	315	0.80
19	1	0.4	699	.	3070	.	0.90
23	1	0.4	698	.	3320	.	0.98
	251	100.0	643	4.5	2508	56	0.91

Table 62. Age frequency distribution and mean fork length, weight, and condition of Arctic Charr harvested from the upstream migration in the Nauyuk River, 1978 (sexes pooled).

Age	N	Percent	Fork Length		Weight		Condition
			Mean	St. Err.	Mean	St. Err.	Mean
(y)		(%)	(mm)		(g)		
2	1	0.3	111	.	13	.	0.95
7	2	0.6	484	6.0	1040	100	0.91
8	22	7.0	554	8.5	1681	77	0.98
9	84	26.6	593	6.4	2093	75	0.97
10	91	28.8	619	6.7	2326	87	0.95
11	65	20.6	673	7.6	2858	109	0.91
12	33	10.4	686	11.3	3072	153	0.93
13	12	3.8	709	18.3	3378	251	0.93
14	3	0.9	703	42.6	2980	414	0.86
15	2	0.6	760	26.5	3305	885	0.74
16	1	0.3	738	.	3000	.	0.75
	316	100.0	629	4.5	2446	51	0.94

Table 63. Age frequency distribution and mean fork length, weight, and condition of Arctic Charr harvested from the downstream migration in the Nauyuk River, 1979 (sexes pooled).

Age	N	Percent	Fork Length		Weight		Condition
			Mean	St. Err.	Mean	St. Err.	Mean
(y)		(%)	(mm)		(g)		
5	2	1.0	187	2.0	48	8	0.72
6	1	0.5	378	.	440	.	0.81
7	4	2.1	319	34.8	279	89	0.75
8	4	2.1	340	57.7	423	192	0.77
9	6	3.1	571	27.0	1573	192	0.83
10	18	9.4	582	15.5	1790	163	0.86
11	38	19.9	628	11.8	2280	142	0.88
12	50	26.2	647	8.4	2380	103	0.86
13	37	19.4	686	10.0	2759	135	0.83
14	20	10.5	729	11.4	3401	206	0.86
15	8	4.2	669	25.8	2276	277	0.74
16	1	0.5	681	.	2840	.	0.90
17	1	0.5	696	.	1850	.	0.55
19	1	0.5	651	.	1430	.	0.52
	191	100.0	633	8.0	2330	73	0.84

Table 64. Age frequency distribution and mean fork length, weight, and condition of Arctic Charr harvested from the upstream migration in the Nauyuk River, 1979 (sexes pooled). Incomplete sample: the upstream run was monitored only briefly.

Age	N	Percent	Fork Length		Weight		Condition
			Mean	St. Err.	Mean	St. Err.	Mean
(y)		(%)	(mm)		(g)		
11	5	50.0	581	11.5	2006	77	1.03
12	3	30.0	630	12.9	2793	370	1.11
13	1	10.0	543	.	1500	.	0.94
14	1	10.0	727	.	3720	.	0.97
	10	100.0	606	17.4	2363	229	1.04

Table 65. Sex-specific age frequency distribution and mean fork length, weight, and condition of Arctic Charr harvested from the downstream migration in the Nauyuk River, 1974.

Age	N	Percent	Fork Length		Weight		Condition
			Mean	St. Err.	Mean	St. Err.	Mean
(y)		(%)	(mm)		(g)		
Females							
5	15	8.5	238	16.8	141	45	0.83
6	39	22.0	266	13.4	223	48	0.84
7	15	8.5	338	35.3	517	184	0.85
8	17	9.6	531	13.5	1422	112	0.92
9	20	11.3	550	15.2	1630	159	0.92
10	18	10.2	603	17.2	2203	193	0.96
11	7	4.0	608	32.1	2511	469	1.03
12	8	4.5	663	19.3	3088	263	1.05
13	6	3.4	669	19.8	2479	198	0.83
14	5	2.8	747	17.8	4015	293	0.96
15	7	4.0	737	6.6	2979	375	0.74
16	8	4.5	754	20.4	3838	581	0.85
17	5	2.8	735	10.8	3395	517	0.84
18	2	1.1	783	10.5	5125	475	1.07
19	4	2.3	704	8.2	2269	419	0.65
21	1	0.6	680	.	1900	.	0.60
	191	100.0	633	8.0	2330	73	0.84
Males							
4	2	1.5	181	11.5	55	13	0.92
5	19	14.0	279	22.1	249	64	0.85
6	20	14.7	283	22.3	275	75	0.84
7	10	7.4	399	44.6	753	251	0.85
8	10	7.4	543	25.2	1601	273	0.93
9	20	14.7	567	16.4	1849	205	0.95
10	11	8.1	630	31.4	2468	334	0.93
11	10	7.4	747	13.5	4378	258	1.04
12	7	5.1	748	15.0	4157	319	0.99
13	8	5.9	769	10.7	4219	246	0.94
14	4	2.9	783	22.4	4888	388	1.02
15	4	2.9	797	22.9	4813	781	0.90
16	5	3.7	779	15.2	2790	165	0.59
17	1	0.7	808	.	3000	.	0.57
18	3	2.2	850	50.2	6033	1750	0.92
19	1	0.7	859	.	6100	.	0.96
20	1	0.7	864	.	5800	.	0.90
	10	100.0	606	17.4	2363	229	1.04

Table 66. Sex-specific age frequency distribution and mean fork length, weight, and condition of Arctic Charr harvested from the upstream migration in the Nauyuk River, 1974.

Age	N	Percent	Fork Length		Weight		Condition
			Mean	St. Err.	Mean	St. Err.	Mean
(y)		(%)	(mm)		(g)		
Females							
3	1	2.0	172	.	43	.	0.85
7	1	2.0	572	.	2350	.	1.26
8	9	17.6	589	18.5	2536	224	1.22
9	8	15.7	599	15.3	2552	198	1.18
10	7	13.7	643	26.9	2661	214	1.03
11	10	19.6	668	16.9	3380	249	1.12
12	71	3.7	685	24.5	3557	291	1.10
13	3	5.9	619	43.4	2425	391	1.02
14	2	3.9	665	56.0	3000	200	1.05
15	1	2.0	687	.	2925	.	0.90
16	1	2.0	740	.	3900	.	0.96
18	1	2.0	772	.	4675	.	1.02
	191	100.0	633	8.0	2330	73	0.84
Males							
4	1	3.3	187	.	78	.	1.19
5	2	6.7	392	57.0	780	295	1.24
6	1	3.3	483	.	1100	.	0.98
7	2	6.7	432	67.0	875	400	1.00
8	5	16.7	552	28.0	2110	390	1.20
9	7	23.3	599	37.6	2589	544	1.11
10	2	6.7	622	23.5	2800	375	1.16
11	3	10.0	780	29.5	4892	123	1.04
13	3	10.0	688	30.0	3883	384	1.19
14	1	3.3	703	.	3350	.	0.96
15	2	6.7	819	42.5	5113	1063	0.92
18	1	3.3	854	.	4725	.	0.76
	10	100.0	606	17.4	2363	229	1.04

Table 67. Sex-specific age frequency distribution and mean fork length, weight, and condition of Arctic Charr harvested from the downstream migration in the Nauyuk River, 1975.

Age (y)	N	Percent (%)	Fork Length Mean (mm)	Fork Length St. Err. (mm)	Weight Mean (g)	Weight St. Err. (g)	Condition Mean
Females							
4	2	1.6	207	21.5	80	14	0.92
5	11	8.9	231	12.1	116	24	0.84
6	7	5.7	270	25.5	220	66	0.91
7	10	8.1	385	35.5	593	119	0.95
8	5	4.1	518	12.4	1400	120	1.00
9	3	2.4	502	73.3	1325	489	0.89
10	16	13.0	605	7.3	2338	109	1.04
11	9	7.3	615	15.4	2467	199	1.04
12	19	15.4	651	12.0	2855	155	1.02
13	8	6.5	671	11.9	3088	239	1.01
14	7	5.7	663	11.6	2606	196	0.89
15	6	4.9	640	20.4	2388	216	0.91
16	6	4.9	721	17.6	3233	267	0.86
17	4	3.3	739	6.8	3619	132	0.90
18	7	5.7	732	20.0	3354	508	0.84
20	1	0.8	737	.	2800	.	0.70
21	1	0.8	738	.	3050	.	0.76
22	1	0.8	773	.	3025	.	0.65
	123	100.0	560	15.7	2091	113	0.95
Males							
3	1	1.2	167	.	35	.	0.75
4	2	2.3	175	7.0	42	7	0.78
5	12	14.0	214	8.4	79	8	0.78
6	6	7.0	282	29.5	209	71	0.78
7	3	3.5	423	68.0	767	306	0.86
8	6	7.0	525	24.1	1479	228	0.98
9	4	4.7	594	27.5	1969	262	0.92
10	9	10.5	637	25.9	2686	327	0.99
11	13	15.1	681	17.2	3179	262	0.98
12	10	11.6	728	25.1	4098	419	1.03
13	5	5.8	676	66.1	3195	662	0.95
14	8	9.3	751	16.1	4156	433	0.97
15	4	4.7	735	45.0	3534	548	0.88
16	1	1.2	487	.	900	.	0.78
17	2	2.3	739	49.0	3375	125	0.86
	86	100.0	555	23.0	2312	188	0.92

Table 68. Sex-specific age frequency distribution and mean fork length, weight, and condition of Arctic Charr harvested from the upstream migration in the Nauyuk River, 1975.

Age	N	Percent	Fork Length		Weight		Condition
			Mean	St. Err.	Mean	St. Err.	Mean
(y)		(%)	(mm)		(g)		
Females							
3	1	5.0	305	.	321	.	1.13
4	3	15.0	280	21.8	190	82	0.75
6	1	5.0	332	.	300	.	0.82
7	1	5.0	421	.	825	.	1.11
8	1	5.0	322	.	380	.	1.14
9	3	15.0	570	10.2	2202	230	1.18
10	2	10.0	583	13.0	2250	475	1.12
11	2	10.0	568	17.5	2135	241	1.16
12	2	10.0	641	77.5	2963	888	1.10
13	1	5.0	675	.	3925	.	1.28
15	1	5.0	735	.	4750	.	1.20
16	2	10.0	741	19.5	4288	838	1.04
	20	100.0	520	37.6	2047	353	1.07
Males							
4	1	5.9	199	.	70	.	0.89
5	1	5.9	338	.	562	.	1.46
7	4	23.5	390	30.3	659	150	1.06
8	2	11.8	435	11.5	896	71	1.09
10	4	23.5	608	28.9	2827	404	1.23
13	2	11.8	759	69.5	5375	925	1.24
14	2	11.8	790	13.5	5163	338	1.05
17	1	5.9	825	.	5150	.	0.92
	17	100.0	548	47.7	2505	510	1.13

Table 69. Sex-specific age frequency distribution and mean fork length, weight, and condition of Arctic Charr harvested from the downstream migration in the Nauyuk River, 1976.

Age	N	Percent	Fork Length		Weight		Condition
			Mean	St. Err.	Mean	St. Err.	Mean
(y)		(%)	(mm)		(g)		
Females							
1	1	1.6	105	.	8	.	0.69
6	2	3.1	561	29.0	1800	410	1.00
7	3	4.7	583	45.9	2195	549	1.06
8	3	4.7	550	36.1	1727	404	0.99
9	11	17.2	624	11.5	2423	166	0.98
10	17	26.6	650	11.7	2836	160	1.01
11	11	17.2	656	14.4	2820	177	0.99
12	4	6.3	639	27.9	2735	444	1.02
13	5	7.8	667	27.4	2582	257	0.87
14	3	4.7	697	1.9	3537	768	1.04
15	1	1.6	747	.	3980	.	0.95
16	1	1.6	736	.	2000	.	0.50
17	1	1.6	628	.	2540	.	1.03
18	1	1.6	770	.	4340	.	0.95
	64	100.0	635	11.3	2634	105	0.98
Males							
3	1	1.5	169	.	40	.	0.83
4	1	1.5	202	.	72	.	0.87
6	2	3.1	460	24.5	820	150	0.83
7	7	10.8	533	31.2	1549	292	0.94
8	8	12.3	577	22.0	1983	274	0.98
9	5	7.7	627	34.5	2595	558	1.00
10	15	23.1	663	19.0	3101	271	1.03
11	11	16.9	690	25.5	3519	424	1.01
12	4	6.2	740	34.1	3973	485	0.97
13	11	16.9	745	20.8	4502	490	1.05
	65	100.0	638	16.2	2955	197	1.00

Table 70. Sex-specific age frequency distribution and mean fork length, weight, and condition of Arctic Charr harvested from the upstream migration in the Nauyuk River, 1976.

Age	N	Percent	Fork Length		Weight		Condition
			Mean	St. Err.	Mean	St. Err.	Mean
(y)		(%)	(mm)		(g)		
Females							
9	1	11.1	625	.	2730	.	1.12
10	3	33.3	654	4.1	2760	541	0.99
11	3	33.3	625	9.8	2860	160	1.17
12	1	11.1	610	.	2530	.	1.11
16	1	11.1	705	.	3370	.	0.96
	9	100.0	642	10.0	2832	180	1.08
Males							
10	4	50.0	661	28.3	3415	468	1.16
11	4	50.0	711	10.9	4080	335	1.13
	8	100.0	686	16.9	3748	295	1.14

Table 71. Sex-specific age frequency distribution and mean fork length, weight, and condition of Arctic Charr harvested from the downstream migration in the Nauyuk River, 1977.

Age (y)	N	Percent (%)	Fork Length Mean (mm)	Fork Length St. Err. (mm)	Weight Mean (g)	Weight St. Err. (g)	Condition Mean
Females							
4	1	1.4	187	.	48	.	0.73
7	2	2.7	594	6.5	1850	70	0.88
8	7	9.6	565	12.4	1704	149	0.93
9	12	16.4	576	15.2	1968	182	1.00
10	10	13.7	615	26.5	2362	379	0.96
11	18	24.7	655	11.6	2661	218	0.93
12	8	11.0	676	19.0	2724	257	0.87
13	6	8.2	684	17.5	2780	376	0.85
14	8	11.0	703	14.9	2808	327	0.79
15	1	1.4	766	.	3700	.	0.82
	73	100.0	631	10.3	2403	111	0.91
Males							
7	1	1.2	525	.	1330	.	0.92
8	6	7.4	582	16.7	1982	187	1.00
9	8	9.9	592	11.2	2208	146	1.06
10	14	17.3	627	17.1	2418	235	0.95
11	22	27.2	722	13.2	3657	263	0.95
12	14	17.3	750	17.0	4597	316	1.07
13	6	7.4	765	15.9	3925	387	0.88
14	6	7.4	759	26.6	3940	356	0.89
15	3	3.7	789	46.9	4183	1042	0.81
16	1	1.2	737	.	3540	.	0.88
	81	100.0	693	9.9	3368	150	0.97

Table 72. Sex-specific age frequency distribution and mean fork length, weight, and condition of Arctic Charr harvested from the upstream migration in the Nauyuk River, 1977.

Age	N	Percent	Fork Length		Weight		Condition
			Mean	St. Err.	Mean	St. Err.	Mean
(y)		(%)	(mm)		(g)		
Females							
5	1	0.5	472	.	1130	.	1.07
6	1	0.5	501	.	1890	.	1.50
7	8	3.8	526	16.9	1753	147	1.18
8	21	9.9	544	8.6	1923	103	1.17
9	55	25.9	569	8.9	2143	94	1.13
10	32	15.1	614	9.4	2637	103	1.12
11	51	24.1	635	7.6	2770	92	1.07
12	24	11.3	643	12.1	2745	148	1.02
13	10	4.7	718	22.2	3865	357	1.02
14	5	2.4	651	55.0	2784	573	0.97
15	2	0.9	662	46.5	2175	795	0.72
16	2	0.9	685	25.5	3135	235	0.98
	212	100.0	606	5.1	2500	56	1.10
Males							
6	1	0.6	425	.	960	.	1.25
7	5	2.8	533	60.5	1955	432	1.17
8	23	12.8	557	7.5	2046	101	1.16
9	48	26.8	588	8.7	2409	112	1.15
10	24	13.4	607	15.0	2703	221	1.14
11	31	17.3	683	12.2	3626	176	1.12
12	24	13.4	728	11.4	4117	158	1.06
13	12	6.7	733	17.6	3898	272	0.98
14	4	2.2	743	17.7	4288	578	1.04
15	3	1.7	711	40.6	3750	410	1.04
16	1	0.6	676	.	3480	.	1.13
17	3	1.7	661	43.0	2833	389	0.98
	179	100.0	636	6.8	2998	85	1.11

Table 73. Sex-specific age frequency distribution and mean fork length, weight, and condition of Arctic Charr harvested from the downstream migration in the Nauyuk River, 1978.

Age (y)	N	Percent (%)	Fork Length Mean (mm)	Fork Length St. Err. (mm)	Weight Mean (g)	Weight St. Err. (g)	Condition Mean
Females							
7	3	2.5	559	32.0	1623	338	0.90
8	7	5.8	572	28.4	1859	251	0.94
9	40	33.3	589	7.6	1987	90	0.95
10	31	25.8	607	10.4	2056	129	0.89
11	19	15.8	631	10.4	2252	123	0.88
12	12	10.0	643	11.3	2294	198	0.85
13	4	3.3	645	16.7	1970	176	0.74
14	3	2.5	636	27.7	2283	358	0.88
15	1	0.8	655	.	2260	.	0.80
	120	100.0	607	5.0	2070	56	0.90
Males							
7	2	1.6	617	57.5	1995	705	0.81
8	11	8.5	586	15.0	1890	147	0.92
9	27	20.9	624	10.8	2338	136	0.94
10	29	22.5	668	9.8	2816	137	0.93
11	30	23.3	712	10.3	3334	149	0.91
12	13	10.1	723	12.6	3588	227	0.94
13	6	4.7	752	11.5	3837	216	0.90
14	5	3.9	763	10.0	3676	467	0.83
15	4	3.1	721	21.8	3025	355	0.81
19	1	0.8	699	.	3070	.	0.90
23	1	0.8	698	.	3320	.	0.98
	129	100.0	676	6.2	2916	81	0.91

Table 74. Sex-specific age frequency distribution and mean fork length, weight, and condition of Arctic Charr harvested from the upstream migration in the Nauyuk River, 1978.

Age	N	Percent	Fork Length		Weight		Condition
			Mean	St. Err.	Mean	St. Err.	Mean
(y)		(%)	(mm)		(g)		
Females							
8	16	11.0	549	10.3	1651	89	0.98
9	37	25.3	568	8.2	1804	87	0.96
10	50	34.2	600	8.4	2002	88	0.91
11	26	17.8	632	6.4	2221	96	0.87
12	12	8.2	644	19.3	2460	218	0.90
13	2	1.4	643	67.0	2790	1030	0.99
14	1	0.7	671	.	3130	.	1.04
15	1	0.7	786	.	4190	.	0.86
16	1	0.7	738	.	3000	.	0.75
	146	100.0	599	5.2	2030	54	0.92
Males							
2	1	0.6	111	.	13	.	0.95
7	2	1.3	484	6.0	1040	100	0.91
8	6	3.8	567	14.6	1760	160	0.95
9	45	28.5	614	8.7	2307	104	0.97
10	39	24.7	645	9.9	2757	141	0.99
11	37	23.4	702	10.2	3279	139	0.93
12	18	11.4	715	11.8	3488	169	0.94
13	8	5.1	723	20.3	3478	308	0.91
14	1	0.6	787	.	3610	.	0.74
15	1	0.6	733	.	2420	.	0.61
	158	100.0	654	6.9	2797	76	0.95

Table 75. Sex-specific age frequency distribution and mean fork length, weight, and condition of Arctic Charr harvested from the downstream migration in the Nauyuk River, 1979.

Age	N	Percent	Fork Length		Weight		Condition
			Mean	St. Err.	Mean	St. Err.	Mean
(y)		(%)	(mm)		(g)		
Females							
7	3	2.7	332	45.8	316	114	0.75
8	3	2.7	306	65.7	280	181	0.71
9	2	1.8	568	3.0	1570	10	0.86
10	14	12.4	572	16.4	1695	170	0.86
11	27	23.9	604	12.2	1939	108	0.85
12	29	25.7	627	9.1	2160	103	0.86
13	20	17.7	654	12.6	2319	167	0.81
14	8	7.1	684	10.6	2603	166	0.81
15	5	4.4	669	39.8	2036	309	0.67
16	1	0.9	681	.	2840	.	0.90
17	1	0.9	696	.	1850	.	0.55
	113	100.0	609	8.9	1998	70	0.83
Males							
5	1	1.4	189	.	55	.	0.81
6	1	1.4	378	.	440	.	0.81
7	1	1.4	281	.	166	.	0.75
8	1	1.4	443	.	850	.	0.98
9	4	5.4	572	42.7	1575	304	0.81
10	3	4.1	637	48.1	2357	523	0.88
11	11	14.9	688	18.6	3118	289	0.93
12	21	28.4	676	13.4	2684	182	0.85
13	17	23.0	723	10.4	3278	139	0.86
14	11	14.9	758	12.0	3930	234	0.89
15	2	2.7	700	7.0	3160	340	0.92
19	1	1.4	651	.	1430	.	0.52
	74	100.0	675	12.9	2868	128	0.87

Table 76. Sex-specific age frequency distribution and mean fork length, weight, and condition of Arctic Charr harvested from the upstream migration in the Nauyuk River, 1979. Incomplete sample: the upstream run was monitored only briefly.

Age	N	Percent	Fork Length		Weight		Condition
			Mean	St. Err.	Mean	St. Err.	Mean
(y)		(%)	(mm)		(g)		
Females							
11	4	50.0	574	11.7	1965	85	1.05
12	2	25.0	618	7.5	2480	340	1.05
13	1	12.5	543	.	1500	.	0.94
14	1	12.5	727	.	3720	.	0.97
	8	100.0	600	20.9	2255	249	1.02
Males							
11	1	50.0	609	.	2170	.	0.96
12	1	50.0	654	.	3420	.	1.22
	2	100.0	632	22.5	2795	625	1.09

Table 77. Mean daily fork length, weight, and condition of sampled and released Arctic charr from the downstream migration in the Nauyuk River, 1974.

Day of Run	Date	N	Percent	Fork Length		Weight		Condition
				Mean	St. Err.	Mean	St. Err.	Mean
			(%)	(mm)		(g)		
1	16 JUN	31	2.6	751	15.6	4746	260	1.08
2	17 JUN	16	1.4	771	14.5	4656	248	1.01
3	18 JUN	75	6.4	768	7.6	4743	122	1.04
4	19 JUN	4	0.3	774	27.5	4113	592	0.87
5	20 JUN	63	5.3	734	8.8	3944	165	0.97
6	21 JUN	53	4.5	700	12.6	3432	195	0.96
7	22 JUN	19	1.6	726	12.8	3784	232	0.97
8	23 JUN	49	4.1	654	13.9	2728	147	0.97
9	24 JUN	4	0.3	662	42.0	2363	378	0.83
10	25 JUN	19	1.6	670	14.7	2955	244	0.96
11	26 JUN	78	6.6	617	12.8	2558	152	0.99
12	27 JUN	26	2.2	614	16.5	2354	191	0.97
13	28 JUN	17	1.4	614	25.6	2105	215	0.89
14	29 JUN	28	2.4	581	18.7	2173	218	1.04
15	30 JUN	37	3.1	594	12.7	2356	141	1.08
16	01 JUL	52	4.4	526	12.5	1457	113	0.91
17	02 JUL	54	4.6	561	11.7	1797	126	0.95
18	03 JUL	40	3.4	547	16.8	1806	164	1.00
19	04 JUL	41	3.5	592	14.9	2180	166	0.97
20	05 JUL	40	3.4	558	16.5	1774	152	0.93
21	06 JUL	29	2.5	549	13.3	1803	139	1.03
22	07 JUL	32	2.7	522	20.4	1509	171	0.92
23	08 JUL	44	3.7	523	16.3	1526	138	0.93
24	09 JUL	42	3.6	524	19.3	1575	199	0.91
25	10 JUL	30	2.5	530	13.6	1623	121	1.04
28	13 JUL	37	3.1	497	13.2	1280	104	0.94
29	14 JUL	30	2.5	479	21.1	1288	178	0.99
30	15 JUL	34	2.9	377	22.2	688	112	0.90
31	16 JUL	88	7.5	226	2.8	101	6	0.84
32	17 JUL	69	5.8	243	12.4	221	74	0.90
		1181	100.0	555	5.2	2169	48	0.96

Table 78. Mean daily fork length, weight, and condition of sampled and released Arctic charr from the upstream migration in the Nauyuk River, 1974.

Day of Run	Date	N	Percent	Fork Length		Weight		Condition
				Mean	St. Err.	Mean	St. Err.	Mean
			(%)	(mm)		(g)		
1	06 AUG	17	2.2	718	17.2	4279	341	1.12
2	07 AUG	9	1.2	701	39.4	4022	575	1.13
3	08 AUG	23	3.0	674	20.7	3438	280	1.08
4	09 AUG	42	5.5	668	13.6	3686	208	1.20
5	10 AUG	41	5.3	663	14.1	3694	189	1.24
6	11 AUG	49	6.4	606	11.5	2725	141	1.18
7	12 AUG	61	7.9	607	10.1	2864	131	1.24
8	13 AUG	58	7.5	613	10.7	2959	147	1.23
9	14 AUG	61	7.9	595	11.3	2728	136	1.22
10	15 AUG	57	7.4	568	10.4	2326	125	1.22
11	16 AUG	51	6.6	569	11.4	2304	135	1.19
12	17 AUG	49	6.4	579	12.5	2444	141	1.20
13	18 AUG	54	7.0	606	11.6	2717	139	1.17
14	19 AUG	34	4.4	547	17.4	2280	215	1.28
15	20 AUG	44	5.7	521	18.6	1972	203	1.24
16	21 AUG	40	5.2	537	17.8	1991	187	1.17
17	22 AUG	37	4.8	521	18.7	1801	168	1.17
19	24 AUG	23	3.0	592	31.0	2714	291	1.13
20	25 AUG	2	0.3	574	156.5	2075	1350	0.94
21	26 AUG	1	0.1	763	.	4800	.	1.08
22	27 AUG	11	1.4	629	32.2	2882	357	1.12
24	29 AUG	6	0.8	557	74.3	2117	571	1.09
		770	100.0	595	3.8	2706	46	1.20

Table 79. Mean daily fork length, weight, and condition of sampled and released Arctic charr from the downstream migration in the Nauyuk River, 1975.

Day of Run	Date	N	Percent	Fork Length		Weight		Condition
				Mean	St. Err.	Mean	St. Err.	Mean
			(%)	(mm)		(g)		
1	09 JUN	4	0.4	673	73.6	3300	943	0.97
2	10 JUN	3	0.3	770	16.8	3933	804	0.85
3	11 JUN	8	0.9	708	16.2	3413	341	0.96
4	12 JUN	21	2.3	706	13.2	3169	228	0.89
5	13 JUN	18	1.9	721	11.3	3329	168	0.90
6	14 JUN	31	3.3	709	13.2	3408	238	0.92
8	16 JUN	20	2.2	653	23.7	2780	251	0.95
9	17 JUN	20	2.2	672	22.4	3053	252	0.97
10	18 JUN	31	3.3	638	20.5	2606	199	0.93
11	19 JUN	23	2.5	626	25.8	2611	241	0.98
12	20 JUN	14	1.5	677	21.7	3148	281	0.98
13	21 JUN	14	1.5	616	31.0	2527	308	0.99
14	22 JUN	21	2.3	636	29.6	2771	297	0.96
15	23 JUN	31	3.3	614	21.0	2486	210	0.98
16	24 JUN	32	3.4	619	18.3	2509	180	0.97
17	25 JUN	3	0.3	574	54.0	2068	740	1.00
18	26 JUN	33	3.5	629	11.2	2486	147	0.97
19	27 JUN	39	4.2	528	19.0	1535	148	0.92
20	28 JUN	36	3.9	501	20.1	1424	175	0.94
21	29 JUN	43	4.6	481	18.4	1226	163	0.89
22	30 JUN	51	5.5	449	23.9	1180	145	0.88
23	01 JUL	27	2.9	367	24.5	623	112	0.88
24	02 JUL	66	7.1	450	17.8	1106	116	0.90
25	03 JUL	63	6.8	538	15.7	1703	115	0.96
26	04 JUL	60	6.5	477	18.1	1328	129	0.95
27	05 JUL	38	4.1	430	23.1	1008	141	0.93
28	06 JUL	19	2.0	502	32.4	1535	307	0.95
29	07 JUL	25	2.7	442	19.7	926	134	0.92
30	08 JUL	10	1.1	543	37.5	1383	199	0.84
31	09 JUL	27	2.9	414	14.1	711	97	0.89
32	10 JUL	33	3.5	461	24.2	1169	163	0.92
33	11 JUL	13	1.4	453	41.6	1106	223	0.89
34	12 JUL	12	1.3	477	36.3	1184	221	0.90
35	13 JUL	10	1.1	597	36.9	2083	387	0.87
36	14 JUL	8	0.9	571	31.0	2009	351	1.00
37	15 JUL	5	0.5	545	45.2	1505	342	0.88
38	16 JUL	8	0.9	499	61.9	1531	427	0.92
48	26 JUL	10	1.1	382	38.0	700	181	1.12
		930	100.0	537	5.0	1807	42	0.93

Table 80. Mean daily fork length, weight, and condition of sampled and released Arctic charr from the upstream migration in the Nauyuk River, 1975.

Day of Run	Date	N	Percent (%)	Fork Length Mean (mm)	Fork Length St. Err. (mm)	Weight Mean (g)	Weight St. Err. (g)	Condition Mean
1	30 JUL	5	0.8	577	39.7	2370	475	1.17
5	03 AUG	7	1.1	565	36.5	2261	470	1.12
6	04 AUG	6	1.0	629	40.4	3154	604	1.18
7	05 AUG	19	3.1	642	17.5	3320	253	1.21
8	06 AUG	28	4.6	620	17.6	2989	237	1.19
9	07 AUG	21	3.4	638	18.2	3304	273	1.21
10	08 AUG	20	3.3	571	19.2	2514	257	1.26
11	09 AUG	38	6.2	564	10.7	2214	132	1.18
12	10 AUG	61	10.0	614	12.8	3053	174	1.23
13	11 AUG	62	10.2	622	14.1	3029	191	1.15
14	12 AUG	91	14.9	587	10.9	2671	153	1.19
15	13 AUG	46	7.6	567	19.9	2479	254	1.16
16	14 AUG	20	3.3	553	17.1	2281	233	1.26
17	15 AUG	31	5.1	537	28.1	2336	319	1.17
18	16 AUG	15	2.5	592	36.2	2888	470	1.18
19	17 AUG	15	2.5	562	33.1	2493	440	1.20
20	18 AUG	3	0.5	772	16.8	5567	220	1.21
21	19 AUG	5	0.8	629	66.3	3175	898	1.13
22	20 AUG	15	2.5	541	36.0	2215	420	1.20
23	21 AUG	7	1.1	475	41.6	1511	536	1.15
24	22 AUG	5	0.8	471	54.8	1390	457	1.14
25	23 AUG	7	1.1	454	38.5	1148	360	1.05
26	24 AUG	11	1.8	430	53.7	1433	691	1.10
27	25 AUG	10	1.6	467	28.1	1226	249	1.10
28	26 AUG	3	0.5	518	139.3	2308	1703	1.07
29	27 AUG	4	0.7	521	88.7	2300	979	1.23
30	28 AUG	4	0.7	547	136.3	2799	1593	1.04
31	29 AUG	7	1.1	422	56.0	1175	530	1.11
32	30 AUG	5	0.8	405	32.0	800	172	1.12
33	31 AUG	1	0.2	772	.	5500	.	1.20
34	01 SEP	7	1.1	410	18.7	781	81	1.12
35	02 SEP	3	0.5	311	18.4	328	62	1.06
36	03 SEP	3	0.5	387	21.7	650	95	1.11
37	04 SEP	1	0.2	525	.	1675	.	1.16
38	05 SEP	5	0.8	404	70.9	1065	579	1.02
39	06 SEP	16	2.6	349	35.9	727	276	1.07
40	07 SEP	2	0.3	281	35.5	183	142	0.65
		609	100.0	565	5.4	2494	64	1.17

Table 81. Mean daily fork length, weight, and condition of sampled and released Arctic charr from the downstream migration in the Nauyuk River, 1976 (weir in late).

Day of Run	Date	N	Percent	Fork Length		Weight		Condition
				Mean	St. Err.	Mean	St. Err.	Mean
			(%)	(mm)		(g)		
1	06 JUL	3	0.4	212	10.3	79	14	0.81
2	07 JUL	12	1.6	351	53.4	559	278	0.75
3	08 JUL	28	3.6	320	32.6	497	137	0.78
4	09 JUL	89	11.5	387	11.9	623	61	0.83
5	10 JUL	24	3.1	383	21.0	599	100	0.85
6	11 JUL	45	5.8	363	20.3	598	106	0.83
7	12 JUL	34	4.4	304	18.2	291	67	0.79
8	13 JUL	143	18.5	410	9.2	747	60	0.86
9	14 JUL	60	7.8	343	13.8	458	62	0.82
10	15 JUL	10	1.3	335	35.7	357	135	0.78
11	16 JUL	63	8.2	337	14.6	456	81	0.82
12	17 JUL	19	2.5	322	15.8	310	51	0.81
13	18 JUL	25	3.2	298	16.4	279	48	0.84
14	19 JUL	27	3.5	310	20.3	323	82	0.81
15	20 JUL	15	1.9	254	21.2	176	45	0.84
16	21 JUL	32	4.1	319	25.2	433	118	0.82
17	22 JUL	23	3.0	236	21.6	182	71	0.85
18	23 JUL	35	4.5	352	22.7	530	86	0.85
19	24 JUL	13	1.7	291	45.5	366	161	0.83
20	25 JUL	8	1.0	203	13.9	75	17	0.80
21	26 JUL	11	1.4	242	26.0	163	60	0.83
22	27 JUL	13	1.7	229	20.7	139	47	0.87
23	28 JUL	4	0.5	506	77.5	1151	415	0.77
24	29 JUL	10	1.3	246	28.4	164	71	0.85
25	30 JUL	20	2.6	239	20.8	173	54	0.88
26	31 JUL	7	0.9	186	8.8	56	7	0.85
		773	100.0	341	4.6	484	21	0.83

Table 82. Mean daily fork length, weight, and condition of sampled and released Arctic charr from the upstream migration in the Nauyuk River, 1976.

Day of Run	Date	N	Percent	Fork Length		Weight		Condition
				Mean	St. Err.	Mean	St. Err.	Mean
			(%)	(mm)		(g)		
1	07 AUG	4	0.4	609	59.9	2740	973	1.06
2	08 AUG	35	3.4	619	17.3	2482	144	0.98
3	09 AUG	14	1.4	665	21.0	2909	187	0.99
4	10 AUG	12	1.2	611	24.0	2560	279	1.07
5	11 AUG	76	7.3	631	8.5	2872	119	1.10
6	12 AUG	15	1.4	583	20.6	2132	195	1.05
7	13 AUG	20	1.9	555	24.8	2046	276	1.05
8	14 AUG	32	3.1	601	13.0	2339	143	1.04
9	15 AUG	32	3.1	587	16.0	2355	177	1.10
10	16 AUG	94	9.1	553	8.2	2008	89	1.13
11	17 AUG	61	5.9	554	9.8	1978	100	1.11
12	18 AUG	71	6.9	564	11.8	2150	135	1.10
13	19 AUG	67	6.5	588	12.0	2371	136	1.08
14	20 AUG	49	4.7	560	14.1	1978	148	1.04
15	21 AUG	31	3.0	489	14.6	1382	118	1.10
16	22 AUG	55	5.3	548	15.2	2002	144	1.10
17	23 AUG	30	2.9	582	22.2	2280	205	1.04
18	24 AUG	7	0.7	558	59.9	2137	770	1.06
19	25 AUG	27	2.6	564	24.0	2188	261	1.06
20	26 AUG	2	0.2	609	102.0	2515	1250	1.01
21	27 AUG	29	2.8	521	30.4	1864	277	1.03
22	28 AUG	33	3.2	497	29.4	1680	252	1.05
23	29 AUG	7	0.7	560	61.3	1964	529	0.98
24	30 AUG	11	1.1	434	41.5	1131	280	1.06
25	31 AUG	15	1.4	489	47.5	1550	356	1.00
26	01 SEP	26	2.5	371	32.2	883	219	1.06
27	02 SEP	51	4.9	330	17.6	570	119	1.01
28	03 SEP	58	5.6	352	17.9	669	101	1.01
29	04 SEP	24	2.3	258	11.1	195	35	0.97
30	05 SEP	2	0.2	313	43.0	358	153	1.09
31	06 SEP	5	0.5	545	83.0	1975	789	0.98
32	07 SEP	10	1.0	258	31.6	267	141	0.99
33	08 SEP	10	1.0	451	57.9	1292	395	1.00
34	09 SEP	3	0.3	380	110.1	903	664	1.03
35	10 SEP	18	1.7	432	42.8	1151	273	0.94
		1036	100.0	524	4.6	1866	38	1.06

Table 83. Mean daily fork length, weight, and condition of sampled and released Arctic charr from the downstream migration in the Nauyuk River, 1977.

Day of Run	Date	N	Percent	Fork Length		Weight		Condition
				Mean	St. Err.	Mean	St. Err.	Mean
			(%)	(mm)		(g)		
1	15 JUN	28	1.2	670	9.8	3149	143	1.03
3	17 JUN	10	0.4	687	21.5	3467	351	1.04
4	18 JUN	37	1.6	674	12.2	3131	173	0.99
5	19 JUN	53	2.3	649	14.5	2744	126	0.95
6	20 JUN	43	1.9	672	9.3	2750	97	0.91
7	21 JUN	34	1.5	654	11.7	2657	126	0.94
8	22 JUN	34	1.5	623	16.7	2401	199	0.93
9	23 JUN	32	1.4	692	9.8	2925	163	0.86
10	24 JUN	76	3.3	630	11.4	2353	114	0.88
11	25 JUN	11	0.5	572	42.2	1928	311	0.86
12	26 JUN	63	2.7	628	12.8	2434	119	0.92
13	27 JUN	19	0.8	649	17.9	2707	237	0.95
14	28 JUN	9	0.4	659	19.2	2726	288	0.93
15	29 JUN	72	3.2	651	10.1	2653	106	0.92
16	30 JUN	79	3.4	622	11.3	2270	103	0.89
17	01 JUL	118	5.1	610	11.4	2088	91	0.84
18	02 JUL	56	2.4	596	18.8	1998	143	0.82
19	03 JUL	196	8.5	616	8.2	2154	73	0.85
20	04 JUL	84	3.7	622	9.7	2265	105	0.89
21	05 JUL	131	5.7	558	9.9	1677	79	0.87
22	06 JUL	160	7.0	586	7.0	1829	60	0.86
23	07 JUL	102	4.4	541	15.5	1605	103	0.82
24	08 JUL	29	1.3	583	31.1	2050	252	0.84
25	09 JUL	20	0.9	607	25.4	2162	262	0.88
27	11 JUL	81	3.5	595	8.4	1954	84	0.89
28	12 JUL	50	2.2	585	12.3	1904	123	0.89
29	13 JUL	29	1.3	550	32.8	1622	189	0.77
30	14 JUL	75	3.3	571	12.2	1577	88	0.80
31	15 JUL	63	2.7	429	27.7	1100	114	0.85
32	16 JUL	31	1.3	434	23.2	865	121	0.83
33	17 JUL	17	0.7	441	50.8	1091	260	0.78
34	18 JUL	86	3.7	479	22.9	1317	102	0.78
35	19 JUL	162	7.0	432	15.0	1026	71	0.81
36	20 JUL	64	2.8	520	11.8	1282	78	0.84
37	21 JUL	37	1.6	575	16.9	1667	131	0.82
38	22 JUL	19	0.8	539	31.4	1685	327	0.87
39	23 JUL	28	1.2	413	29.2	796	117	0.80
40	24 JUL	6	0.3	352	88.1	695	314	0.78
41	25 JUL	7	0.3	538	44.7	1289	247	0.77
42	26 JUL	5	0.2	358	74.1	540	279	0.77
43	27 JUL	17	0.7	406	48.6	918	245	0.83
44	28 JUL	10	0.4	537	54.7	1666	388	0.85
46	30 JUL	4	0.2	516	58.8	1155	317	0.75
47	31 JUL	12	0.5	430	67.0	1173	377	0.81
48	01 AUG	2	0.1	786	22.5	5620	380	1.16
		2301	100.0	572	3.1	1915	23	0.86

Table 84. Mean daily fork length, weight, and condition of sampled and released Arctic charr from the upstream migration in the Nauyuk River, 1977.

Day of Run	Date	N	Percent	Fork Length		Weight		Condition
				Mean	St. Err.	Mean	St. Err.	Mean
			(%)	(mm)		(g)		
1	02 AUG	10	0.8	621	22.9	1915	226	0.78
2	03 AUG	7	0.6	668	35.6	2766	345	0.91
3	04 AUG	12	1.0	681	15.3	2685	163	0.87
4	05 AUG	21	1.8	654	17.0	2966	243	1.03
5	06 AUG	10	0.8	596	50.5	2567	437	1.03
6	07 AUG	13	1.1	618	39.9	2834	377	1.05
7	08 AUG	6	0.5	647	31.2	2753	501	0.97
8	09 AUG	31	2.6	627	19.2	2801	206	1.06
9	10 AUG	59	4.9	620	14.0	2724	158	1.07
10	11 AUG	132	11.0	635	7.5	2865	94	1.07
11	12 AUG	67	5.6	594	9.9	2371	106	1.10
12	13 AUG	31	2.6	588	15.5	2380	190	1.11
13	14 AUG	94	7.9	619	7.9	2618	93	1.07
14	15 AUG	74	6.2	611	10.4	2636	126	1.10
15	16 AUG	52	4.3	616	13.0	2762	170	1.11
16	17 AUG	91	7.6	583	9.1	2282	88	1.10
17	18 AUG	53	4.4	559	16.2	2125	151	1.08
18	19 AUG	77	6.4	577	12.3	2230	114	1.08
19	20 AUG	44	3.7	503	19.0	1637	162	1.08
20	21 AUG	24	2.0	581	22.4	2275	207	1.09
21	22 AUG	40	3.3	509	23.5	1807	199	1.09
22	23 AUG	40	3.3	543	20.8	1974	170	1.07
23	24 AUG	31	2.6	520	27.8	1863	209	1.09
24	25 AUG	19	1.6	407	47.4	1302	396	1.03
25	26 AUG	27	2.3	298	22.9	453	139	1.06
26	27 AUG	31	2.6	279	19.1	365	104	1.07
27	28 AUG	27	2.3	327	30.7	649	211	1.06
28	29 AUG	37	3.1	359	33.6	1054	259	1.05
29	30 AUG	9	0.8	303	51.9	622	448	1.06
30	31 AUG	4	0.3	338	114.3	963	840	1.04
31	01 SEP	2	0.2	585	149.5	2735	1865	1.11
32	02 SEP	3	0.3	252	9.1	150	15	0.94
33	03 SEP	2	0.2	402	255.0	1444	1417	0.93
34	04 SEP	1	0.1	383	.	560	.	1.00
36	06 SEP	5	0.4	664	21.1	2976	334	1.00
37	07 SEP	3	0.3	299	49.1	277	115	0.95
38	08 SEP	5	0.4	261	28.2	185	62	0.93
39	09 SEP	1	0.1	211	.	85	.	0.90
42	12 SEP	1	0.1	172	.	42	.	0.83
		1196	100.0	556	4.4	2193	37	1.07

Table 85. Mean daily fork length, weight, and condition of sampled and released Arctic charr from the downstream migration in the Nauyuk River, 1978.

Day of Run	Date	N	Percent	Fork Length		Weight		Condition
				Mean	St. Err.	Mean	St. Err.	Mean
			(%)	(mm)		(g)		
1	04 JUL	24	1.1	691	14.0	3249	183	0.96
2	05 JUL	81	3.7	656	7.6	2711	98	0.93
3	06 JUL	37	1.7	684	10.7	2888	127	0.89
4	07 JUL	102	4.6	646	7.4	2488	83	0.89
5	08 JUL	98	4.4	644	7.5	2422	82	0.88
6	09 JUL	31	1.4	660	13.7	2481	159	0.83
8	11 JUL	14	0.6	631	22.4	2220	235	0.84
9	12 JUL	15	0.7	630	17.3	2167	186	0.84
10	13 JUL	19	0.9	636	18.5	2341	207	0.87
12	15 JUL	2	0.1	646	31.5	2510	290	0.93
13	16 JUL	25	1.1	661	15.3	2363	145	0.81
14	17 JUL	76	3.4	662	8.6	2619	108	0.87
15	18 JUL	20	0.9	664	9.9	2462	124	0.84
16	19 JUL	66	3.0	643	9.2	2443	108	0.89
17	20 JUL	58	2.6	609	10.1	2072	102	0.88
18	21 JUL	53	2.4	614	11.0	2065	104	0.86
19	22 JUL	192	8.7	631	5.7	2260	63	0.87
20	23 JUL	139	6.3	603	6.7	1979	66	0.86
21	24 JUL	55	2.5	592	13.7	1982	118	0.90
22	25 JUL	24	1.1	610	16.8	2108	139	0.91
23	26 JUL	73	3.3	552	14.7	1664	93	0.85
24	27 JUL	284	12.9	577	6.2	1791	46	0.86
25	28 JUL	140	6.3	574	7.1	1754	61	0.87
26	29 JUL	71	3.2	589	11.6	1913	85	0.87
27	30 JUL	47	2.1	586	18.6	1995	132	0.88
28	31 JUL	58	2.6	565	16.0	1630	105	0.81
29	01 AUG	59	2.7	579	11.6	1846	89	0.89
30	02 AUG	83	3.8	556	9.1	1588	66	0.87
32	04 AUG	16	0.7	511	25.6	1282	147	0.85
33	05 AUG	126	5.8	546	8.1	1526	62	0.87
34	06 AUG	6	0.3	527	69.1	1745	649	0.91
35	07 AUG	20	0.9	490	32.3	1269	200	0.86
36	08 AUG	13	0.6	394	38.0	749	201	0.88
37	09 AUG	2	0.1	416	152.0	561	419	0.65
38	10 AUG	4	0.2	476	52.5	1010	307	0.83
39	11 AUG	10	0.5	461	47.3	1049	290	0.82
40	12 AUG	20	0.9	390	23.5	587	106	0.80
41	13 AUG	20	0.9	355	23.7	479	104	0.81
		2183	100.0	597	2.3	2010	19	0.87

Table 86. Mean daily fork length, weight, and condition of sampled and released Arctic charr from the upstream migration in the Nauyuk River, 1978.

Day of Run	Date	N	Percent	Fork Length		Weight		Condition
				Mean	St. Err.	Mean	St. Err.	Mean
			(%)	(mm)		(g)		
1	13 AUG	116	8.1	570	9.9	1857	91	0.90
2	14 AUG	40	2.8	586	9.2	1934	92	0.94
3	15 AUG	5	0.4	653	28.3	2444	479	0.83
4	16 AUG	46	3.2	599	9.0	2174	116	0.98
5	17 AUG	60	4.2	627	9.1	2510	117	0.98
6	18 AUG	55	3.9	591	8.3	2064	95	0.97
7	19 AUG	128	9.0	595	7.0	2074	72	0.94
8	20 AUG	123	8.6	611	6.9	2349	72	0.98
9	21 AUG	93	6.5	613	8.1	2323	99	0.96
10	22 AUG	80	5.6	599	9.2	2094	88	0.93
11	23 AUG	110	7.7	605	7.7	2202	87	0.94
12	24 AUG	95	6.7	601	10.1	2226	104	0.95
13	25 AUG	98	6.9	595	9.0	2137	95	0.95
14	26 AUG	49	3.4	620	11.1	2378	121	0.96
15	27 AUG	56	3.9	621	14.1	2385	138	0.92
16	28 AUG	29	2.0	593	20.6	2164	194	0.93
17	29 AUG	49	3.4	590	19.8	2333	199	0.95
18	30 AUG	21	1.5	617	33.5	2591	292	0.93
19	31 AUG	30	2.1	528	34.0	1899	263	0.96
20	01 SEP	39	2.7	610	19.5	2370	188	0.94
21	02 SEP	12	0.8	488	51.2	1521	381	0.94
22	03 SEP	26	1.8	546	30.5	1934	268	0.95
23	04 SEP	17	1.2	577	31.9	2008	277	0.93
24	05 SEP	12	0.8	469	63.6	1534	396	0.94
25	06 SEP	9	0.6	552	59.5	2010	471	0.95
26	07 SEP	4	0.3	615	85.9	2055	616	0.84
27	08 SEP	3	0.2	177	50.3	82	64	0.92
28	09 SEP	1	0.1	688	.	2550	.	0.78
30	11 SEP	5	0.4	457	123.5	1444	629	0.83
31	12 SEP	4	0.3	448	80.8	1136	540	0.95
32	13 SEP	5	0.4	510	136.6	1783	711	0.88
33	14 SEP	2	0.1	300	1.5	254	4	0.94
35	16 SEP	2	0.1	250	6.5	143	8	0.92
		1424	100.0	593	2.8	2158	26	0.95

Table 87. Mean daily fork length, weight, and condition of sampled and released Arctic charr from the downstream migration in the Nauyuk River, 1979. Upstream data not presented: weir was removed early.

Day of Run	Date	N	Percent	Fork Length		Weight		Condition
				Mean	St. Err.	Mean	St. Err.	Mean
			(%)	(mm)		(g)		
1	23 JUN	1	0.1	813	.	4310	.	0.80
2	24 JUN	5	0.3	700	30.7	3128	464	0.88
3	25 JUN	17	0.9	700	12.1	3024	173	0.87
4	26 JUN	16	0.9	687	17.8	2916	248	0.87
5	27 JUN	45	2.5	665	9.6	2650	118	0.88
6	28 JUN	36	2.0	667	16.5	2716	146	0.86
7	29 JUN	27	1.5	641	26.5	2487	198	0.85
8	30 JUN	51	2.8	668	10.4	2725	134	0.89
9	01 JUL	69	3.8	643	11.2	2309	103	0.82
10	02 JUL	50	2.7	651	9.6	2403	116	0.84
11	03 JUL	40	2.2	635	14.1	2236	167	0.82
12	04 JUL	89	4.9	632	9.6	2214	90	0.83
13	05 JUL	29	1.6	612	14.0	1947	139	0.81
14	06 JUL	89	4.9	635	8.3	2253	88	0.84
15	07 JUL	9	0.5	550	40.4	1329	199	0.72
17	09 JUL	17	0.9	608	23.1	1996	236	0.82
18	10 JUL	62	3.4	613	9.9	1936	95	0.80
19	11 JUL	105	5.7	615	6.0	1914	50	0.81
20	12 JUL	151	8.2	611	6.8	1962	64	0.81
21	13 JUL	55	3.0	609	14.3	2042	114	0.83
22	14 JUL	45	2.5	600	14.0	1944	110	0.85
23	15 JUL	130	7.1	574	7.1	1658	58	0.83
24	16 JUL	118	6.4	602	8.2	1947	63	0.84
25	17 JUL	65	3.5	573	8.6	1619	80	0.82
26	18 JUL	61	3.3	605	10.4	1921	93	0.82
27	19 JUL	66	3.6	585	9.6	1699	94	0.81
28	20 JUL	56	3.1	589	8.5	1806	95	0.85
29	21 JUL	29	1.6	524	19.1	1225	109	0.77
30	22 JUL	41	2.2	553	16.8	1572	106	0.83
31	23 JUL	61	3.3	563	12.4	1648	91	0.84
32	24 JUL	41	2.2	511	18.0	1200	108	0.77
33	25 JUL	22	1.2	603	17.2	1860	164	0.80
34	26 JUL	79	4.3	483	14.2	1108	89	0.81
36	28 JUL	1	0.1	624	.	1760	.	0.72
37	29 JUL	9	0.5	574	19.1	1646	148	0.85
38	30 JUL	5	0.3	568	25.5	1494	174	0.80
40	01 AUG	11	0.6	548	31.5	1486	235	0.82
41	02 AUG	15	0.8	562	36.1	1779	277	0.84
42	03 AUG	13	0.7	456	42.5	964	220	0.74
43	04 AUG	3	0.2	570	72.0	1227	278	0.67
		1834	100.0	601	2.3	1834	20	0.83

Table 88. Mean daily fork length, weight, and condition of sampled and released Arctic charr from the upstream migration in the Nauyuk River, 1984. Downstream run not monitored.

Day of Run	Date	N	Percent	Fork Length		Weight		Condition
				Mean	St. Err.	Mean	St. Err.	Mean
			(%)	(mm)		(g)		
1	04 AUG	31	1.8	565	12.1	2751	192	1.47
2	05 AUG	103	5.9	572	7.3	2749	115	1.40
3	06 AUG	132	7.6	549	6.9	2381	104	1.36
4	07 AUG	46	2.7	569	12.6	2764	216	1.40
5	08 AUG	124	7.2	552	7.0	2487	93	1.41
6	09 AUG	135	7.8	542	6.5	2270	86	1.35
7	10 AUG	76	4.4	543	8.9	2274	117	1.34
8	11 AUG	14	0.8	521	20.6	2146	314	1.42
9	12 AUG	1	0.1	655	.	3940	.	1.40
10	13 AUG	119	6.9	537	7.5	2191	99	1.33
11	14 AUG	60	3.5	527	10.3	2084	133	1.34
12	15 AUG	126	7.3	510	6.6	1901	81	1.35
13	16 AUG	144	8.3	505	6.4	1794	68	1.30
14	17 AUG	52	3.0	484	12.6	1658	129	1.32
15	18 AUG	45	2.6	498	14.7	1776	156	1.29
16	19 AUG	53	3.1	459	12.8	1405	126	1.28
17	20 AUG	46	2.7	430	15.5	1156	148	1.24
18	21 AUG	62	3.6	424	15.5	1208	145	1.26
19	22 AUG	63	3.6	398	10.4	917	77	1.28
20	23 AUG	29	1.7	394	30.8	1260	311	1.23
21	24 AUG	39	2.3	333	13.7	560	75	1.24
22	25 AUG	57	3.3	334	13.3	598	111	1.17
23	26 AUG	58	3.3	303	7.2	363	27	1.16
24	27 AUG	16	0.9	344	38.7	785	339	1.15
25	28 AUG	63	3.6	295	7.8	347	31	1.16
26	29 AUG	8	0.5	327	57.3	857	617	1.14
27	30 AUG	30	1.7	323	16.9	498	137	1.16
		1732	100.0	484	2.9	1796	30	1.31

Table 89. Mean daily fork length, weight, and condition of sampled and released Arctic charr from the upstream migration in the Nauyuk River, 1988. Downstream run not monitored.

Day of Run	Date	N	Percent	Fork Length		Weight		Condition
				Mean	St. Err.	Mean	St. Err.	Mean
			(%)	(mm)		(g)		
1	09 AUG	14	1.3	592	10.4	2737	199	1.29
2	10 AUG	37	3.4	610	12.9	3179	187	1.35
3	11 AUG	42	3.9	547	10.3	2230	120	1.31
4	12 AUG	41	3.8	595	12.6	2971	191	1.34
5	13 AUG	24	2.2	572	12.7	2533	145	1.33
6	14 AUG	34	3.1	561	11.9	2436	168	1.32
7	15 AUG	64	5.9	557	9.7	2400	130	1.32
8	16 AUG	89	8.2	539	7.5	2236	85	1.35
9	17 AUG	21	1.9	526	20.8	2002	242	1.29
10	18 AUG	59	5.4	576	11.0	2707	147	1.33
11	19 AUG	58	5.3	488	18.7	1911	190	1.32
12	20 AUG	111	10.2	397	9.9	1033	94	1.31
13	21 AUG	252	23.2	367	7.1	846	69	1.31
14	22 AUG	134	12.3	369	9.8	836	97	1.23
15	23 AUG	91	8.4	421	15.0	1365	158	1.30
16	24 AUG	17	1.6	439	39.3	1510	434	1.23
		1088	100.0	459	4.2	1627	41	1.31

Table 90. Mean daily fork length, weight, and condition of Arctic charr from the upstream migration in Willow Creek, 1975.

Day of Run	Date	N	Percent	Fork Length		Weight		Condition
				Mean	St. Err.	Mean	St. Err.	Mean
			(%)	(mm)		(g)		
1	08 JUN	6	2.8	707	17.0	3379	209	0.95
2	09 JUN	10	4.7	716	9.3	3598	168	0.98
3	10 JUN	35	16.6	687	8.0	3264	127	0.99
4	11 JUN	6	2.8	703	21.7	3454	228	1.00
5	12 JUN	46	21.8	694	7.6	3380	101	1.00
6	13 JUN	3	1.4	669	42.8	3042	430	1.01
7	14 JUN	31	14.7	670	9.6	2922	104	0.97
8	15 JUN	25	11.8	684	10.7	3108	130	0.96
9	16 JUN	10	4.7	645	16.9	2733	206	1.01
10	17 JUN	1	0.5	718	.	3125	.	0.84
11	18 JUN	34	16.1	646	13.2	2682	153	0.98
12	19 JUN	1	0.5	774	.	4025	.	0.87
13	20 JUN	1	0.5	712	.	2975	.	0.82
19	26 JUN	1	0.5	718	.	3600	.	0.97
30	07 JUL	1	0.5	646	.	2425	.	0.90
		211	100.0	680	4.0	3122	51	0.98

Table 91. Mean daily fork length, weight, and condition of Arctic charr from the downstream migration in Willow Creek, 1975.

Day of Run	Date	N	Percent	Fork Length		Weight		Condition
				Mean	St. Err.	Mean	St. Err.	Mean
			(%)	(mm)		(g)		
1	07 JUN	25	24.8	708	7.7	2910	115	0.82
2	08 JUN	25	24.8	703	10.1	2625	106	0.75
3	09 JUN	25	24.8	706	10.2	2585	108	0.73
4	10 JUN	26	25.7	686	8.5	2505	104	0.77
		101	100.0	701	4.6	2655	55	0.77

Table 92. Mean daily fork length, weight, and condition of Arctic charr from the upstream migration in Willow Creek, 1976.

Day of Run	Date	N	Percent	Fork Length		Weight		Condition
				Mean	St. Err.	Mean	St. Err.	Mean
			(%)	(mm)		(g)		
1	15 JUN	63	12.5	730	4.8	3825	80	0.98
2	16 JUN	51	10.1	718	6.0	3705	95	0.99
3	17 JUN	35	6.9	735	6.8	3952	102	0.99
4	18 JUN	147	29.1	722	3.7	3750	53	0.99
5	19 JUN	40	7.9	725	7.9	3822	126	0.99
6	20 JUN	41	8.1	675	9.1	3149	111	1.01
7	21 JUN	23	4.6	691	11.8	3324	142	1.00
8	22 JUN	4	0.8	713	40.0	3581	530	0.97
9	23 JUN	18	3.6	655	16.1	2968	202	1.03
10	24 JUN	33	6.5	649	11.3	2804	140	1.00
11	25 JUN	15	3.0	652	18.6	2927	258	1.02
12	26 JUN	5	1.0	678	37.7	3125	461	0.97
13	27 JUN	2	0.4	675	61.5	2963	738	0.95
14	28 JUN	10	2.0	662	25.7	3000	350	1.00
15	29 JUN	3	0.6	644	25.4	2533	271	0.94
16	30 JUN	3	0.6	578	11.6	1967	148	1.01
18	02 JUL	3	0.6	644	38.6	2783	521	1.02
19	03 JUL	1	0.2	613	.	2450	.	1.06
20	04 JUL	1	0.2	593	.	2075	.	1.00
22	06 JUL	2	0.4	631	41.0	2388	338	0.95
23	07 JUL	2	0.4	620	21.5	2425	300	1.01
29	13 JUL	3	0.6	600	12.9	2150	153	0.99
		505	100.0	703	2.7	3517	36	0.99

Table 93. Mean daily fork length, weight, and condition of Arctic charr from the downstream migration in Willow Creek, 1976.

Day of Run	Date	N	Percent	Fork Length		Weight		Condition
				Mean	St. Err.	Mean	St. Err.	Mean
			(%)	(mm)		(g)		
1	14 JUN	1	0.6	714	.	2325	.	0.64
2	15 JUN	2	1.1	703	2.0	2425	75	0.70
4	17 JUN	11	6.1	703	10.6	2273	131	0.65
5	18 JUN	4	2.2	706	45.8	2363	447	0.66
6	19 JUN	1	0.6	734	.	3350	.	0.85
8	21 JUN	15	8.4	690	12.3	2165	120	0.66
9	22 JUN	20	11.2	680	10.0	2250	99	0.71
10	23 JUN	15	8.4	704	11.9	2298	160	0.65
11	24 JUN	9	5.0	673	18.8	2106	200	0.68
12	25 JUN	28	15.6	676	8.8	1986	82	0.64
13	26 JUN	3	1.7	704	18.6	2275	63	0.66
14	27 JUN	27	15.1	663	12.5	1960	94	0.67
15	28 JUN	4	2.2	700	19.6	1975	240	0.57
16	29 JUN	1	0.6	677	.	1875	.	0.60
17	30 JUN	6	3.4	689	19.5	2263	206	0.69
19	02 JUL	6	3.4	648	28.0	1858	196	0.68
21	04 JUL	2	1.1	715	20.0	2725	600	0.74
23	06 JUL	2	1.1	524	47.0	1125	275	0.77
26	09 JUL	2	1.1	584	19.0	1325	175	0.66
28	11 JUL	2	1.1	750	23.0	2675	75	0.64
29	12 JUL	2	1.1	706	27.5	2125	600	0.59
31	14 JUL	1	0.6	604	.	1475	.	0.67
34	17 JUL	5	2.8	656	29.4	1860	198	0.66
36	19 JUL	6	3.4	575	23.3	1421	106	0.75
39	22 JUL	1	0.6	574	.	1025	.	0.54
40	23 JUL	1	0.6	544	.	1100	.	0.68
43	26 JUL	2	1.1	558	43.5	1350	275	0.77
		179	100.0	674	4.6	2066	41	0.67

Table 94. Mean daily fork length, weight, and condition of Arctic charr from the upstream migration in Willow Creek, 1977.

Day of Run	Date	N	Percent	Fork Length		Weight		Condition
				Mean	St. Err.	Mean	St. Err.	Mean
			(%)	(mm)		(g)		
1	13 JUN	6	2.9	674	35.6	3154	431	1.00
3	15 JUN	10	4.8	691	27.8	3423	377	1.00
4	16 JUN	2	1.0	692	70.0	3275	800	0.97
5	17 JUN	28	13.5	651	10.5	2701	138	0.96
6	18 JUN	1	0.5	700	.	3150	.	0.92
7	19 JUN	30	14.5	655	11.0	2796	140	0.97
8	20 JUN	17	8.2	633	13.7	2534	189	0.97
9	21 JUN	9	4.3	623	16.3	2397	191	0.98
10	22 JUN	30	14.5	625	8.7	2371	114	0.95
11	23 JUN	4	1.9	570	16.9	1788	163	0.96
12	24 JUN	28	13.5	626	8.9	2390	111	0.96
13	25 JUN	4	1.9	639	22.4	2481	300	0.94
14	26 JUN	6	2.9	634	9.4	2438	149	0.95
15	27 JUN	5	2.4	622	23.5	2380	308	0.97
16	28 JUN	2	1.0	601	6.0	2088	238	0.96
17	29 JUN	3	1.4	619	24.2	2258	362	0.93
18	30 JUN	5	2.4	616	17.7	2305	226	0.97
19	01 JUL	1	0.5	607	.	2025	.	0.91
23	05 JUL	1	0.5	661	.	2750	.	0.95
24	06 JUL	5	2.4	621	9.7	2185	161	0.91
26	08 JUL	5	2.4	641	26.2	2355	175	0.90
27	09 JUL	4	1.9	647	21.1	2625	342	0.96
29	11 JUL	1	0.5	626	.	2200	.	0.90
		207	100.0	639	3.9	2567	51	0.96

Table 95. Mean daily fork length, weight, and condition of Arctic charr from the downstream migration in Willow Creek, 1977.

Day of Run	Date	N	Percent	Fork Length		Weight		Condition
				Mean	St. Err.	Mean	St. Err.	Mean
			(%)	(mm)		(g)		
1	13 JUN	1	0.2	730	.	2650	.	0.68
3	15 JUN	7	1.5	709	25.3	2582	269	0.72
5	17 JUN	27	5.8	699	13.3	2567	134	0.74
6	18 JUN	8	1.7	697	26.1	2459	221	0.72
7	19 JUN	10	2.1	732	19.2	2795	248	0.69
8	20 JUN	22	4.7	659	14.0	2028	132	0.69
9	21 JUN	1	0.2	627	.	1850	.	0.75
10	22 JUN	3	0.6	755	20.9	3017	322	0.70
11	23 JUN	15	3.2	689	17.2	2417	164	0.72
12	24 JUN	20	4.3	678	15.5	2279	148	0.71
13	25 JUN	19	4.1	692	15.8	2503	132	0.74
14	26 JUN	32	6.9	679	10.2	2271	109	0.71
15	27 JUN	30	6.4	691	8.5	2411	89	0.72
16	28 JUN	40	8.6	685	8.4	2373	74	0.73
17	29 JUN	19	4.1	688	13.1	2414	119	0.73
18	30 JUN	13	2.8	687	18.8	2302	170	0.70
19	01 JUL	23	4.9	648	15.0	1989	129	0.71
20	02 JUL	25	5.4	680	15.1	2269	136	0.70
21	03 JUL	13	2.8	667	21.0	2135	213	0.70
22	04 JUL	6	1.3	695	9.7	2300	122	0.68
23	05 JUL	28	6.0	673	12.5	2163	111	0.70
24	06 JUL	36	7.7	654	11.8	2060	103	0.72
25	07 JUL	23	4.9	675	17.0	2265	165	0.70
26	08 JUL	17	3.6	635	20.7	2006	158	0.77
27	09 JUL	4	0.9	685	39.0	2194	288	0.67
29	11 JUL	6	1.3	723	13.1	2767	188	0.73
30	12 JUL	3	0.6	582	46.1	1533	404	0.73
33	15 JUL	8	1.7	634	30.5	1841	290	0.68
36	18 JUL	5	1.1	641	24.5	1990	138	0.76
37	19 JUL	2	0.4	720	27.0	2438	313	0.65
		466	100.0	678	3.2	2281	30	0.72

Table 96. Mean daily fork length, weight, and condition of Arctic charr from the upstream migration in Willow Creek, 1978.

Day of Run	Date	N	Percent	Fork Length		Weight		Condition
				Mean	St. Err.	Mean	St. Err.	Mean
			(%)	(mm)		(g)		
1	03 JUL	28	14.7	646	11.4	2606	120	0.96
2	04 JUL	39	20.5	653	10.9	2713	130	0.95
3	05 JUL	28	14.7	634	12.6	2529	151	0.97
4	06 JUL	17	8.9	663	16.8	2863	216	0.96
5	07 JUL	13	6.8	620	17.3	2400	178	0.99
6	08 JUL	16	8.4	596	13.3	2067	126	0.97
7	09 JUL	8	4.2	604	21 0	2116	188	0.95
8	10 JUL	7	3.7	585	5.3	1993	76	0.99
9	11 JUL	6	3.2	602	7.2	2075	33	0.95
11	13 JUL	6	3.2	617	37.5	2308	442	0.94
12	14 JUL	5	2.6	585	19.1	1925	182	0.95
13	15 JUL	10	5.3	586	20.2	1988	227	0.96
15	17 JUL	3	1.6	622	16.9	2133	131	0.89
17	19 JUL	2	1.1	565	6.0	1650	25	0.92
19	21 JUL	1	0.5	623	.	2250	.	0.93
24	26 JUL	1	0.5	577	.	1725	.	0.90
		190	100.0	628	4.8	2436	54	0.96

Table 97. Mean daily fork length, weight, and condition of Arctic charr from the downstream migration in Willow Creek, 1978.

Day of Run	Date	N	Percent	Fork Length		Weight		Condition
				Mean	St. Err.	Mean	St. Err.	Mean
			(%)	(mm)		(g)		
1	03 JUL	60	23.4	646	7.1	2075	79	0.75
2	04 JUL	46	18.0	647	8.4	2073	91	0.74
3	05 JUL	29	11.3	648	11.2	2058	109	0.74
4	06 JUL	23	9.0	636	14.8	1861	113	0.71
5	07 JUL	12	4.7	638	14.2	1956	127	0.75
6	08 JUL	20	7.8	620	12.0	1793	110	0.74
7	09 JUL	14	5.5	658	26.4	2046	239	0.69
8	10 JUL	8	3.1	602	10.2	1628	72	0.75
9	11 JUL	5	2.0	714	18.5	2065	199	0.56
10	12 JUL	7	2.7	628	26.2	1868	168	0.76
11	13 JUL	1	0.4	710	.	2850	.	0.80
12	14 JUL	9	3.5	620	27.1	1619	159	0.68
13	15 JUL	4	1.6	646	39.8	1800	147	0.68
16	18 JUL	3	1.2	684	21.9	2350	302	0.73
17	19 JUL	1	0.4	752	.	2950	.	0.69
22	24 JUL	3	1.2	640	27.2	1533	136	0.59
24	26 JUL	1	0.4	577	.	1325	.	0.69
25	27 JUL	3	1.2	602	30.0	1792	343	0.80
27	29 JUL	3	1.2	609	25.2	1575	76	0.71
28	30 JUL	1	0.4	602	.	1425	.	0.65
29	31 JUL	3	1.2	606	49.6	1425	181	0.65
		256	100.0	642	3.9	1965	37	0.73

Table 98. Mean daily fork length, weight, and condition of Arctic charr from the upstream migration in Willow Creek, 1979.

Day of Run	Date	N	Percent	Fork Length		Weight		Condition
				Mean	St. Err.	Mean	St. Err.	Mean
			(%)	(mm)		(g)		
1	22 JUN	2	1.6	581	23.5	1840	160	0.94
2	23 JUN	3	2.4	678	7.3	2687	123	0.86
3	24 JUN	9	7.1	661	23.5	2741	278	0.92
4	25 JUN	17	13.4	648	14.2	2500	185	0.89
6	27 JUN	22	17.3	653	13.4	2561	154	0.90
7	28 JUN	6	4.7	603	16.0	1967	149	0.89
8	29 JUN	2	1.6	649	24.0	2445	315	0.89
9	30 JUN	8	6.3	623	25.6	2218	307	0.88
10	01 JUL	15	11.8	606	13.5	2055	155	0.90
12	03 JUL	11	8.7	670	20.1	2746	231	0.89
13	04 JUL	1	0.8	610	.	1950	.	0.86
15	06 JUL	13	10.2	579	8.2	1711	71	0.88
16	07 JUL	1	0.8	740	.	3020	.	0.75
17	08 JUL	10	7.9	641	21.7	2394	236	0.88
19	10 JUL	1	0.8	572	.	1590	.	0.85
20	11 JUL	1	0.8	728	.	3470	.	0.90
24	15 JUL	2	1.6	569	20.5	1550	230	0.84
28	19 JUL	2	1.6	558	18.0	1485	15	0.86
30	21 JUL	1	0.8	715	.	3100	.	0.85
		127	100.0	633	5.7	2331	65	0.89

Table 99. Mean daily fork length, weight, and condition of Arctic charr from the downstream migration in Willow Creek, 1979.

Day of Run	Date	N	Percent	Fork Length		Weight		Condition
				Mean	St. Err.	Mean	St. Err.	Mean
			(%)	(mm)		(g)		
1	22 JUN	1	0.6	659	.	1840	.	0.64
3	24 JUN	19	10.7	613	13.5	1728	150	0.73
4	25 JUN	14	7.9	653	17.8	2019	140	0.72
6	27 JUN	21	11.8	663	15.2	2255	151	0.75
7	28 JUN	42	23.6	617	11.1	1864	114	0.76
8	29 JUN	32	18.0	607	11.5	1764	107	0.76
9	30 JUN	14	7.9	618	15.0	1756	139	0.73
10	01 JUL	9	5.1	584	8.7	1524	72	0.76
11	02 JUL	2	1.1	527	74.0	1215	435	0.80
12	03 JUL	11	6.2	623	26.3	2055	289	0.80
13	04 JUL	1	0.6	556	.	1060	.	0.62
14	05 JUL	4	2.2	608	21.8	1585	87	0.71
15	06 JUL	1	0.6	551	.	1010	.	0.60
16	07 JUL	3	1.7	581	61.7	1387	298	0.70
18	09 JUL	2	1.1	619	33.5	1680	200	0.71
19	10 JUL	1	0.6	585	.	1480	.	0.74
21	12 JUL	1	0.6	588	.	1270	.	0.62
		178	100.0	619	5.1	1837	50	0.75

Table 100. Mean daily fork length, weight, and condition of Arctic char from the upstream migration in Willow Creek, 1980.

Day of Run	Date	N	Percent	Fork Length		Weight		Condition
				Mean	St. Err.	Mean	St. Err.	Mean
			(%)	(mm)		(g)		
1	19 JUN	11	4.7	662	14.6	2683	170	0.92
2	20 JUN	9	3.9	649	29.9	2637	327	0.94
3	21 JUN	27	11.6	646	10.9	2631	132	0.96
4	22 JUN	13	5.6	660	16.4	2835	204	0.96
5	23 JUN	55	23.7	632	7.7	2471	94	0.96
6	24 JUN	33	14.2	620	9.4	2265	118	0.93
7	25 JUN	2	0.9	600	13.0	1870	130	0.86
8	26 JUN	34	14.7	599	6.1	2028	64	0.93
10	28 JUN	23	9.9	627	11.2	2344	128	0.93
12	30 JUN	5	2.2	628	29.9	2304	349	0.90
17	05 JUL	1	0.4	721	.	3620	.	0.97
19	07 JUL	2	0.9	691	1.0	3230	420	0.98
20	08 JUL	1	0.4	641	.	2460	.	0.93
21	09 JUL	1	0.4	564	.	1500	.	0.84
22	10 JUL	2	0.9	639	86.0	2600	1080	0.93
26	14 JUL	6	2.6	637	20.3	2585	261	0.98
28	16 JUL	2	0.9	592	161.5	2390	1610	0.96
31	19 JUL	2	0.9	625	11.5	2545	25	1.05
40	28 JUL	3	1.3	612	26.7	2480	270	1.08
		232	100.0	630	3.8	2422	46	0.94

Table 101. Mean daily fork length, weight, and condition of Arctic charr from the downstream migration in Willow Creek, 1980.

Day of Run	Date	N	Percent	Fork Length		Weight		Condition
				Mean	St. Err.	Mean	St. Err.	Mean
			(%)	(mm)		(g)		
1	18 JUN	9	8.1	679	22.6	2254	236	0.70
2	19 JUN	7	6.3	607	26.3	1621	195	0.71
3	20 JUN	5	4.5	586	28.1	1452	244	0.70
4	21 JUN	1	0.9	712	.	2050	.	0.57
5	22 JUN	1	0.9	696	.	2120	.	0.63
6	23 JUN	9	8.0	595	17.1	1296	100	0.61
7	24 JUN	9	8.0	591	18.9	1320	196	0.61
8	25 JUN	4	3.6	669	36.1	2008	404	0.64
9	26 JUN	5	4.5	585	12.4	1088	45	0.55
11	28 JUN	15	13.5	604	26.5	1679	199	0.71
13	30 JUN	1	0.9	592	.	1320	.	0.64
15	02 JUL	5	4.5	611	22.0	1464	146	0.64
16	03 JUL	2	1.8	679	6.0	2030	290	0.65
18	05 JUL	1	0.9	548	.	1440	.	0.86
20	07 JUL	2	1.8	656	69.5	1870	470	0.65
21	08 JUL	11	9.9	639	25.6	1977	212	0.73
22	09 JUL	4	3.6	625	34.2	1683	410	0.66
23	10 JUL	3	2.7	675	50.0	2163	514	0.67
24	11 JUL	2	1.8	562	13.5	1050	20	0.59
25	12 JUL	8	7.2	594	24.7	1506	198	0.70
26	13 JUL	2	1.8	565	16.0	1240	70	0.69
28	15 JUL	2	1.8	454	24.0	840	60	0.90
31	18 JUL	3	2.7	547	33.7	1100	214	0.65
		111	100.0	613	7.3	1619	62	0.67

Table 102. Mean number of days at sea, by 2 cm length intervals, with associated mean downstream and upstream fork lengths and weights for tagged Arctic charr from Nauyuk Lake, 1974.

Length Interval (mm)	N	Percent of Sample	TIME AT SEA (days)		FORK LENGTH (mm)		WEIGHT (g)			
					Downstream	Upstream	Downstream		Upstream	
			Mean	St.Err.	Mean	Mean	Mean	St.Err.	Mean	St.Err.
350-369	1	0.4	44	.	360	403	375	.	825	.
370-389	3	1.3	38	2.6	385	419	517	33	775	38
390-409	2	0.9	41	2.0	403	425	563	63	900	25
410-429	3	1.3	50	0.3	424	467	767	33	1092	79
430-449	11	4.8	42	1.8	438	471	818	30	1240	23
450-469	13	5.7	42	2.4	461	490	985	51	1354	45
470-489	12	5.2	40	1.6	479	508	1081	23	1483	29
490-509	9	3.9	42	2.5	500	525	1211	29	1592	54
510-529	21	9.2	41	1.5	520	546	1386	24	1969	66
530-549	23	10.0	44	1.6	540	566	1558	30	2159	36
550-569	21	9.2	45	1.4	561	586	1757	36	2387	30
570-589	24	10.5	44	1.5	578	601	1991	41	2577	47
590-609	16	7.0	46	1.7	599	619	2245	51	2816	64
610-629	11	4.8	46	2.0	617	635	2507	58	3095	101
630-649	13	5.7	43	1.9	636	655	2660	113	3356	97
650-669	5	2.2	49	3.2	658	682	3020	97	3710	124
670-689	8	3.5	46	2.2	677	697	3053	174	3756	176
690-709	16	7.0	47	1.9	699	711	3353	155	3997	172
710-729	5	2.2	53	5.5	719	730	3480	276	4125	249
730-749	5	2.2	52	3.1	738	750	4005	207	4450	222
750-769	3	1.3	49	2.9	761	769	4783	217	5533	295
770-789	1	0.4	48	.	774	782	4400	.	5000	.
810-829	2	0.9	48	1.0	819	818	4875	873	5200	800
830-849	1	0.4	59	.	849	818	5350	.	5500	.
	229	100.0	44	0.5	572	595	2022	67	2577	72

Table 103. Mean number of days at sea, by 2 cm length intervals, with associated mean downstream and upstream fork lengths and weights for tagged Arctic charr from Nauyuk Lake, 1975.

Length Interval (mm)	N	Percent of Sample	TIME AT SEA (days)		FORK LENGTH (mm)		WEIGHT (g)			
					Downstream	Upstream	Downstream		Upstream	
			Mean	St.Err.	Mean	Mean	Mean	St.Err.	Mean	St.Err.
290-309	2	0.5	50	5.0	299	342	238	38	450	25
310-329	3	0.7	51	3.5	319	372	310	10	587	48
330-349	7	1.6	54	3.0	339	392	359	10	671	22
350-369	19	4.4	45	2.0	361	402	414	11	724	26
370-389	30	6.9	47	1.5	378	418	471	7	826	25
390-409	23	5.3	43	1.4	398	438	570	16	949	18
410-429	24	5.6	41	1.1	419	455	668	8	1081	26
430-449	27	6.3	41	1.4	441	475	781	14	1225	30
450-469	23	5.3	41	1.2	459	493	897	22	1456	30
470-489	21	4.9	40	1.5	479	512	1015	12	1605	49
490-509	25	5.8	39	1.1	502	534	1137	16	1765	49
510-529	21	4.9	42	1.3	519	549	1329	34	1931	49
530-549	23	5.3	40	1.6	539	565	1485	22	2142	45
550-569	22	5.1	40	1.6	559	582	1713	21	2403	40
570-589	24	5.6	41	1.5	581	605	1960	30	2713	46
590-609	25	5.8	42	1.6	599	623	2181	30	2930	30
610-629	21	4.9	43	1.8	619	646	2467	51	3380	69
630-649	14	3.2	41	2.1	640	664	2486	84	3455	101
650-669	16	3.7	45	2.1	658	680	2759	97	3925	106
670-689	16	3.7	50	1.8	677	697	2825	93	4095	101
690-709	10	2.3	48	2.8	701	718	3115	110	4433	137
710-729	16	3.7	49	2.1	717	736	3173	123	4595	151
730-749	7	1.6	50	4.6	734	743	3318	201	4696	293
750-769	8	1.9	51	2.5	757	776	4472	151	6178	199
770-789	2	0.5	53	6.0	775	785	3625	125	5238	213
790-809	2	0.5	52	10.0	799	816	4363	338	6288	138
810-829	1	0.2	59	.	818	811	5500	.	6750	.
	432	100.0	43	0.4	527	557	1588	50	2307	67

Table 104. Mean number of days at sea, by 2 cm length intervals, with associated mean downstream and upstream fork lengths and weights for tagged Arctic charr from Nauyuk Lake, 1976.

Length Interval (mm)	N	Percent of Sample	TIME AT SEA (days)		FORK LENGTH (mm)		WEIGHT (g)			
					Downstream	Upstream	Downstream		Upstream	
			Mean	St.Err.	Mean	Mean	Mean	St.Err.	Mean	St.Err.
150-169	1	0.5	19	.	169	168	41	.	36	.
170-189	3	1.6	42	3.2	180	194	54	9	79	15
190-209	7	3.8	46	3.8	200	230	64	2	116	8
210-229	2	1.1	44	9.5	221	261	85	3	176	25
230-249	4	2.2	52	1.1	239	281	103	5	236	20
250-269	2	1.1	35	1.5	259	278	155	18	206	19
270-289	5	2.7	51	2.0	276	317	166	53	261	41
290-309	5	2.7	36	6.4	301	328	218	9	340	51
310-329	11	5.9	45	1.6	321	354	281	7	485	21
330-349	13	7.0	44	0.9	339	369	318	6	543	25
350-369	8	4.3	40	2.3	361	395	399	9	668	16
370-389	15	8.1	40	1.0	379	408	458	7	719	19
390-409	14	7.6	39	1.7	400	431	545	11	874	23
410-429	13	7.0	40	1.3	420	448	641	10	970	24
430-449	25	13.5	37	1.0	440	464	724	10	1048	26
450-469	14	7.6	37	0.8	458	481	842	13	1207	24
470-489	15	8.1	38	0.9	480	501	974	23	1381	40
490-509	11	5.9	33	2.1	498	515	1108	44	1440	58
510-529	3	1.6	33	4.7	514	527	1100	51	1427	46
530-549	1	0.5	38	.	531	550	1230	.	1780	.
550-569	1	0.5	29	.	565	576	1420	.	2000	.
570-589	4	2.2	34	3.2	575	588	1471	84	2015	116
590-609	4	2.2	33	0.5	598	609	1775	78	2204	38
610-629	1	0.5	38	.	629	626	2480	.	2395	.
630-709	2	1.1	16	2.0	699	695	2455	225	2518	113
730-749	1	0.5	19	.	734	736	2750	.	3000	.
	185	100.0	39	0.6	404	429	662	35	943	40

Table 105. Mean number of days at sea, by 2 cm length intervals, with associated mean downstream and upstream fork lengths and weights for tagged Arctic charr from Nauyuk Lake, 1977.

Length Interval (mm)	N	Percent of Sample	TIME AT SEA (days)		FORK LENGTH (mm)		WEIGHT (g)			
					Downstream	Upstream	Downstream		Upstream	
			Mean	St.Err.	Mean	Mean	Mean	St.Err.	Mean	St.Err.
110-129	2	0.2	43	1.5	119	129	12	2	21	5
130-149	4	0.4	36	5.2	140	149	23	2	31	2
150-169	1	0.1	51	.	154	172	22	.	42	.
170-189	2	0.2	45	9.5	176	201	49	6	82	< 0
190-209	6	0.5	39	2.8	197	222	61	3	109	12
210-229	4	0.4	39	7.6	217	234	85	3	131	24
230-249	3	0.3	32	11.6	236	252	119	22	159	23
270-289	1	0.1	43	.	285	329	180	.	340	.
290-309	2	0.2	38	9.0	297	331	208	13	398	123
310-329	2	0.2	49	14.0	323	367	269	32	460	40
330-349	6	0.5	46	3.9	341	383	311	14	627	48
350-369	11	1.0	40	2.4	359	396	371	13	673	36
370-389	8	0.7	44	2.7	384	424	468	13	843	34
390-409	23	2.0	38	1.9	400	432	544	9	906	26
410-429	19	1.7	42	1.8	418	456	622	10	1081	31
430-449	29	2.6	40	1.7	441	473	738	9	1210	22
450-469	48	4.2	39	1.2	460	489	841	7	1303	20
470-489	64	5.6	37	1.0	480	507	951	8	1437	16
490-509	79	7.0	36	0.7	500	525	1107	9	1621	17
510-529	81	7.1	34	0.9	520	541	1247	11	1736	24
530-549	72	6.3	38	0.9	541	563	1429	13	2028	23
550-569	74	6.5	37	1.0	560	581	1559	17	2141	33
570-589	83	7.3	38	0.9	579	597	1722	18	2323	26
590-609	82	7.2	40	0.8	599	616	1903	22	2558	33
610-629	67	5.9	39	1.1	619	636	2073	33	2768	47
630-649	71	6.3	40	1.0	639	655	2277	37	3007	56
650-669	52	4.6	42	1.0	660	675	2526	43	3316	53
670-689	54	4.8	42	0.9	678	691	2726	45	3464	49
690-709	58	5.1	39	1.2	700	710	2837	54	3481	84
710-729	50	4.4	44	1.6	719	729	3246	79	3866	94
730-749	41	3.6	41	1.5	739	744	3347	88	3985	112
750-769	28	2.5	42	1.6	759	766	3887	103	4571	132
770-789	5	0.4	39	5.7	780	788	4602	112	5186	219
790-809	1	0.1	48	.	803	800	3760	.	3600	.
810-829	1	0.1	31	.	828	835	5470	.	6060	.
830-849	1	0.1	44	.	836	835	6150	.	6920	.
	1135	100.0	39	0.3	572	591	1811	28	2393	32

Table 106. Mean number of days at sea, by 2 cm length intervals, with associated mean downstream and upstream fork lengths and weights for tagged Arctic charr from Nauyuk Lake, 1978.

Length Interval (mm)	N	Percent of Sample	TIME AT SEA (days)		FORK LENGTH (mm)		WEIGHT (g)			
					Downstream	Upstream	Downstream		Upstream	
			Mean	St.Err.	Mean	Mean	Mean	St.Err.	Mean	St.Err.
150-169	1	0.2	24	.	166	167	34	.	36	.
170-189	1	0.2	25	.	189	190	53	.	60	.
230-249	4	0.7	25	8.1	241	251	109	7	144	19
250-269	9	1.5	27	2.0	261	275	132	5	187	6
270-289	11	1.8	27	3.7	282	293	171	5	227	9
290-309	3	0.5	31	9.0	297	306	208	9	262	28
310-329	3	0.5	13	6.2	319	325	251	11	302	4
330-349	4	0.7	22	1.3	340	348	308	6	370	13
350-369	1	0.2	1	.	353	351	390	.	380	.
370-389	2	0.3	32	6.5	378	389	420	< 0	535	35
390-409	3	0.5	26	2.4	403	408	533	12	583	24
410-429	7	1.2	32	3.9	417	427	563	27	676	14
430-449	6	1.0	24	1.4	443	453	715	27	852	42
450-469	12	2.0	27	1.9	459	470	831	20	967	33
470-489	14	2.3	29	1.9	479	488	948	18	1117	33
490-509	26	4.4	25	1.6	499	506	1095	24	1225	21
510-529	38	6.4	24	1.2	520	525	1208	19	1319	27
530-549	59	9.9	25	1.0	539	546	1398	14	1545	19
550-569	57	9.5	25	1.1	560	566	1505	20	1688	23
570-589	51	8.5	26	1.1	580	584	1610	30	1777	36
590-609	71	11.9	27	0.8	600	606	1847	31	2061	32
610-629	57	9.5	26	0.9	619	625	1936	35	2220	46
630-649	35	5.9	29	1.4	640	645	2173	60	2503	62
650-669	38	6.4	29	1.2	658	663	2384	52	2731	82
670-689	25	4.2	32	2.2	678	684	2791	43	3115	68
690-709	16	2.7	30	2.5	697	703	2996	56	3325	91
710-729	18	3.0	29	1.8	716	720	3136	81	3321	100
730-749	12	2.0	32	2.2	741	739	3481	125	3691	165
750-769	10	1.7	35	3.5	761	761	3575	134	3792	153
770-789	3	0.5	40	4.1	774	772	4157	319	4330	301
	597	100.0	27	0.3	572	577	1738	33	1941	37

Table 107. Mean number of days in freshwater, by 2 cm length intervals, with associated mean upstream and downstream fork lengths and weights for tagged Arctic charr from Nauyuk Lake, upstream 1974, downstream 1975.

Length Interval (mm)	N	Percent of Sample	TIME IN NAUYUK L. (days)		FORK LENGTH (mm)		WEIGHT (g)			
					Downstream	Upstream	Downstream		Upstream	
			Mean	St.Err.	Mean	Mean	Mean	St.Err.	Mean	St.Err.
330-349	1	0.3	315	.	346	351	350	.	325	.
370-389	6	1.5	318	2.1	376	393	683	23	546	26
390-409	8	2.0	317	2.6	400	423	838	22	676	16
410-429	13	3.3	316	2.6	419	442	917	22	762	18
430-449	8	2.0	318	3.2	441	468	1103	27	953	32
450-469	15	3.8	322	1.5	462	484	1232	31	1055	24
470-489	22	5.5	320	1.9	479	502	1334	33	1149	27
490-509	17	4.3	320	1.7	500	520	1497	27	1332	44
510-529	26	6.5	321	1.6	520	539	1693	36	1480	31
530-549	30	7.6	320	1.5	541	562	1983	29	1768	30
550-569	26	6.5	319	1.5	559	578	2191	49	1912	33
570-589	26	6.5	317	1.5	580	598	2460	40	2225	42
590-609	31	7.8	319	1.5	598	615	2623	31	2345	32
610-629	34	8.6	315	1.4	621	641	2987	57	2678	47
630-649	20	5.0	311	1.9	639	659	3314	73	3010	63
650-669	17	4.3	314	2.6	661	674	3463	82	3021	101
670-689	18	4.5	314	2.2	681	696	3746	125	3316	121
690-709	23	5.8	314	2.0	699	708	3807	92	3349	81
710-729	18	4.5	309	1.9	718	730	3974	131	3560	136
730-749	14	3.5	311	3.4	739	756	4586	215	4086	199
750-769	7	1.8	307	1.0	763	773	5039	254	4325	332
770-789	8	2.0	310	2.2	780	792	5188	247	4753	256
790-809	5	1.3	307	3.6	800	808	5670	244	5110	242
810-829	1	0.3	307	.	811	834	6375	.	6025	.
830-849	3	0.8	318	3.3	838	841	5967	767	5050	990
	397	100.0	316	0.5	590	608	2664	64	2362	58

Table 108. Mean number of days in freshwater, by 2 cm length intervals, with associated mean upstream and downstream fork lengths and weights for tagged Arctic charr from Nauyuk Lake, upstream 1975, downstream 1976 (weir in late; full run not sampled).

Length Interval (mm)	N	Percent of Sample	TIME IN NAUYUK L. (days)		FORK LENGTH (mm)		WEIGHT (g)			
			Mean	St.Err.	Downstream Mean	Upstream Mean	Downstream Mean	St.Err.	Upstream Mean	St.Err.
230-249	1	1.4	312	.	233	240	150	.	109	.
250-269	1	1.4	305	.	268	274	200	.	160	.
270-289	2	2.7	319	7.0	274	292	213	13	208	8
330-349	3	4.1	322	0.3	334	345	400	25	340	26
350-369	1	1.4	319	.	350	366	500	.	440	.
370-389	3	4.1	315	2.9	386	399	658	17	537	34
390-409	4	5.5	330	5.2	404	423	756	45	650	31
410-429	5	6.8	328	2.6	418	435	825	14	713	18
430-449	2	2.7	332	4.0	441	464	1013	88	895	45
450-469	1	1.4	333	.	456	487	1175	.	1025	.
470-489	2	2.7	341	4.0	476	485	1263	63	930	80
550-569	1	1.4	321	.	550	556	1700	.	1480	.
570-589	1	1.4	320	.	588	599	2625	.	2350	.
590-609	1	1.4	343	.	605	626	2750	.	2450	.
610-629	1	1.4	318	.	617	643	3000	.	2750	.
630-649	2	2.7	314	2.0	642	661	3575	225	3050	150
650-669	1	1.4	317	.	650	674	4000	.	3275	.
670-689	7	9.6	313	0.9	681	693	3875	127	3414	95
690-709	10	13.7	313	1.1	697	710	3955	93	3515	86
710-729	9	12.3	316	3.2	721	730	4461	114	3956	123
730-749	11	15.1	312	0.7	740	753	4739	123	4186	104
750-769	3	4.1	312	0.6	754	767	5033	98	4592	171
790-809	1	1.4	309	.	806	831	6150	.	5325	.
	73	100.0	318	1.1	593	607	2997	210	2641	188

Table 109. Mean number of days in freshwater, by 2 cm length intervals, with associated mean upstream and downstream fork lengths and weights for tagged Arctic charr from Nauyuk Lake, upstream 1976, downstream 1977.

Length Interval (mm)	N	Percent of Sample	TIME IN NAUYUK L. (days)		FORK LENGTH (mm)		WEIGHT (g)			
					Downstream	Upstream	Downstream		Upstream	
			Mean	St.Err.	Mean	Mean	Mean	St.Err.	Mean	St.Err.
230-249	2	0.5	295	4.0	241	248	135	11	109	7
250-269	1	0.2	310	.	250	264	151	.	140	.
270-289	9	2.2	313	4.0	282	293	229	10	194	14
290-309	3	0.7	311	8.7	294	296	243	2	179	12
310-329	3	0.7	315	6.8	320	329	332	4	307	18
330-349	11	2.6	316	3.5	343	351	416	13	337	15
350-369	10	2.4	315	3.3	361	376	512	17	451	17
370-389	10	2.4	325	3.1	376	396	566	21	502	16
390-409	18	4.3	323	1.9	400	415	690	13	612	13
410-429	16	3.8	326	2.3	420	440	804	16	728	13
430-449	22	5.3	327	2.4	439	462	927	19	832	15
450-469	40	9.6	328	1.2	461	480	1050	13	948	12
470-489	35	8.4	330	1.4	478	499	1187	14	1072	12
490-509	36	8.7	330	1.5	500	519	1348	19	1202	16
510-529	26	6.3	330	1.8	518	536	1520	26	1365	25
530-549	20	4.8	328	2.1	538	556	1677	30	1526	29
550-569	19	4.6	329	1.8	560	576	1899	43	1700	40
570-589	23	5.5	322	1.6	580	593	2068	33	1834	38
590-609	30	7.2	330	2.0	600	613	2239	36	2007	43
610-629	11	2.6	324	3.5	620	629	2448	59	2225	60
630-649	16	3.8	323	3.0	640	650	2757	65	2438	73
650-669	9	2.2	330	4.1	660	670	3083	99	2766	102
670-689	8	1.9	319	4.2	679	687	3032	206	2688	220
690-709	13	3.1	321	3.0	700	710	3352	127	2996	147
710-729	13	3.1	326	3.4	715	724	3660	153	3302	141
730-749	8	1.9	322	5.8	738	737	3686	228	3103	288
750-769	3	0.7	324	11.6	764	775	4478	515	4127	483
910-929	1	0.2	302	.	911	916	6720	.	6560	.
	416	100.0	326	0.5	517	533	1647	49	1473	44

Table 110. Mean number of days in freshwater, by 2 cm length intervals, with associated mean upstream and downstream fork lengths and weights for tagged Arctic charr from Nauyuk Lake, upstream 1977, downstream 1978.

Length Interval (mm)	N	Percent of Sample	TIME IN NAUYUK L. (days) Mean	St.Err.	FORK LENGTH (mm) Downstream Mean	Upstream Mean	WEIGHT (g) Downstream Mean	St.Err.	Upstream Mean	St.Err.
190-209	1	0.2	348	.	204	223	88	.	86	.
210-229	1	0.2	358	.	229	238	120	.	95	.
230-249	3	0.5	343	5.6	240	248	134	8	130	16
250-269	3	0.5	339	2.3	261	277	191	10	161	11
270-289	4	0.6	336	1.2	275	296	229	13	193	12
290-309	1	0.2	343	.	299	334	318	.	240	.
310-329	2	0.3	353	2.5	324	343	314	27	310	< 0
330-369	4	0.6	341	5.0	362	382	480	22	450	17
370-389	2	0.3	345	2.5	384	402	570	10	525	15
390-409	4	0.6	343	0.3	401	422	728	46	650	32
410-429	5	0.8	347	2.9	419	440	798	24	714	26
430-449	16	2.5	343	1.8	438	462	955	22	876	21
450-469	16	2.5	344	2.4	462	486	1141	23	1036	23
470-489	22	3.4	343	1.6	479	502	1251	20	1140	18
490-509	36	5.5	345	1.4	499	520	1363	19	1247	18
510-529	67	10.3	346	0.8	519	538	1546	16	1400	13
530-549	57	8.8	346	0.8	538	559	1735	17	1578	16
550-569	47	7.2	344	1.0	561	580	1987	29	1792	28
570-589	50	7.7	342	1.3	582	598	2159	32	1952	30
590-609	55	8.5	341	1.2	598	611	2311	29	2113	30
610-629	61	9.4	342	1.4	619	633	2566	36	2304	36
630-649	44	6.8	340	1.5	639	653	2768	51	2534	47
650-669	34	5.2	338	1.9	658	672	3046	41	2750	45
670-689	35	5.4	335	1.9	680	690	3286	61	2936	63
690-709	21	3.2	338	2.4	698	707	3342	99	3004	114
710-729	20	3.1	342	2.9	719	729	3677	119	3324	122
730-749	20	3.1	334	2.0	739	744	3759	143	3370	149
750-769	17	2.6	339	2.5	758	769	4234	152	3888	158
770-789	1	0.2	338	.	778	769	3940	.	3180	.
810-829	1	0.2	332	.	818	819	4820	.	4180	.
	650	100.0	342	0.4	580	596	2232	37	2020	33

Table 111. Mean number of days in freshwater, by 2 cm length intervals, with associated mean upstream and downstream fork lengths and weights for tagged Arctic charr from Nauyuk Lake, upstream 1978, downstream 1979.

Length Interval (mm)	N	Percent of Sample	TIME IN NAUYUK L. (days)		FORK LENGTH (mm)		WEIGHT (g)			
					Downstream	Upstream	Downstream		Upstream	
			Mean	St.Err.	Mean	Mean	Mean	St.Err.	Mean	St.Err.
190-209	1	0.2	318	.	190	210	60	.	71	.
230-249	1	0.2	300	.	232	231	118	.	93	.
250-269	3	0.6	318	6.9	264	271	175	10	144	8
270-289	6	1.1	319	5.4	276	279	187	5	152	3
290-309	6	1.1	328	1.1	295	306	248	7	214	16
310-329	3	0.6	326	7.3	317	320	292	6	217	7
350-369	3	0.6	344	3.3	361	369	393	7	369	16
370-389	2	0.4	336	11.5	381	385	515	55	461	49
390-409	3	0.6	325	4.5	400	400	540	21	493	35
410-429	4	0.8	326	3.1	419	421	650	17	563	20
430-449	4	0.8	325	2.9	439	445	763	35	685	33
450-469	10	1.9	329	1.9	461	465	885	25	784	25
470-489	11	2.1	330	1.7	478	485	1029	24	936	17
490-509	24	4.5	329	1.7	500	508	1191	18	1079	18
510-529	23	4.3	331	1.4	517	519	1255	29	1123	28
530-549	38	7.1	330	1.1	539	544	1477	23	1355	24
550-569	47	8.8	331	1.1	558	564	1635	20	1487	19
570-589	53	10.0	327	1.2	579	582	1747	34	1555	39
590-609	62	11.7	326	1.3	600	602	1995	31	1787	31
610-629	59	11.1	326	1.0	618	619	2119	41	1869	42
620-649	45	8.5	325	1.1	639	641	2422	44	2145	44
650-669	36	6.8	324	1.5	659	659	2543	48	2209	63
670-689	26	4.9	320	2.1	678	683	3090	66	2750	79
690-709	17	3.2	324	1.8	700	707	3300	98	2972	102
710-729	22	4.1	322	2.1	720	721	3303	77	2891	112
730-749	10	1.9	317	2.4	739	744	3782	214	3434	212
750-769	8	1.5	323	3.3	759	761	3930	148	3504	164
770-789	3	0.6	323	7.2	777	773	4260	256	3727	254
790-809	1	0.2	336	.	805	820	5530	.	5170	.
810-829	1	0.2	320	.	815	802	5750	.	3810	.
	532	100.0	326	0.4	587	590	2008	39	1788	35

Table 112. Mean number of days in Willow Lake, by 2 cm length intervals, with associated mean upstream and downstream fork lengths and weights for spawning Arctic charr from Nauyuk Lake, upstream 1975.

Length Interval (mm)	N	Percent of Sample	TIME IN WILLOW L. (days)		FORK LENGTH (mm)		WEIGHT (g)			
					Downstream	Upstream	Downstream		Upstream	
			Mean	St.Err.	Mean	Mean	Mean	St.Err.	Mean	St.Err.
One year residents										
550-569	1	1.4	401	.	552	544	1675	.	1100	.
570-589	3	4.2	384	6.7	573	570	1967	46	1408	93
590-609	2	2.8	382	5.5	603	603	2225	75	1538	38
610-629	3	4.2	382	7.9	620	611	2308	60	1550	43
630-649	8	11.1	379	2.1	643	643	2666	60	1844	63
650-669	8	11.1	381	2.6	660	654	2838	81	1903	62
670-689	14	19.4	378	1.3	681	676	3054	81	2011	96
690-709	10	13.9	380	1.6	701	693	3348	93	2153	68
710-729	14	19.4	379	0.8	719	718	3548	57	2373	88
730-749	6	8.3	379	2.7	734	729	3713	143	2433	218
750-769	2	2.8	385	14.5	757	748	3963	63	2586	63
770-789	1	1.4	382	.	786	784	4500	.	3025	.
	72	100.0	380	0.8	682	677	3105	69	2066	51
Two year residents										
530-549	1	4.2	743	.	545	540	1525	.	1000	.
570-589	1	4.2	743	.	579	575	2300	.	1275	.
590-609	3	12.5	738	4.7	597	593	2158	30	1292	116
610-629	3	12.5	741	4.3	614	605	2458	98	1400	58
630-649	3	12.5	739	3.3	639	629	2758	159	1642	197
650-669	3	12.5	745	6.9	666	654	3250	118	1883	140
670-689	2	8.3	739	1.0	674	664	3088	63	2025	25
690-709	2	8.3	753	17.0	696	689	3700	200	2038	88
710-729	2	8.3	746	1.5	715	710	3750	375	2288	88
730-749	1	4.2	744	.	739	718	3575	.	1900	.
750-769	2	8.3	746	2.5	759	750	4500	< 1	2563	238
770-789	1	4.2	741	.	775	778	5200	.	2725	.
	24	100.0	742	1.7	661	653	3106	182	1807	100

Table 113. Mean number of days in Willow Lake, by 2 cm length intervals, with associated mean upstream and downstream fork lengths and weights for spawning Arctic charr from Nauyuk Lake, upstream 1976.

Length Interval (mm)	N	Percent of Sample	TIME IN WILLOW L. (days)		FORK LENGTH (mm)		WEIGHT (g)			
					Downstream	Upstream	Downstream		Upstream	
			Mean	St.Err.	Mean	Mean	Mean	St.Err.	Mean	St.Err.
One year residents										
530-549	2	0.6	378	3.0	546	545	1663	138	1350	100
550-569	3	0.9	369	1.5	559	555	2067	355	1308	8
570-589	14	4.1	371	1.4	583	576	1986	27	1429	35
590-609	17	5.0	371	2.3	598	593	2218	47	1594	30
610-629	18	5.3	371	2.1	617	610	2460	34	1742	31
630-649	13	3.8	374	2.0	636	632	2756	106	1975	59
650-669	15	4.4	375	2.0	661	653	2885	65	2033	51
670-689	35	10.3	374	1.2	679	673	3161	40	2261	28
690-709	44	13.0	377	0.9	700	692	3486	35	2452	30
710-729	56	16.5	376	0.8	720	712	3654	40	2567	33
730-749	58	17.1	375	0.9	740	732	3988	35	2774	29
750-769	40	11.8	377	1.4	759	751	4228	51	2936	39
770-789	15	4.4	372	1.6	777	771	4535	103	3215	79
790-809	6	1.8	376	2.4	800	791	4704	123	3392	116
810-829	3	0.9	371	4.7	814	802	5142	73	3792	46
	339	100.0	375	0.4	700	693	3478	42	2449	30
Two year residents										
530-549	1	2.4	767	.	547	539	1575	.	1100	.
570-589	1	2.4	745	.	585	581	2100	.	1500	.
590-609	4	9.8	745	1.7	597	590	2238	78	1500	37
610-629	3	7.3	756	8.9	623	608	2483	110	1542	93
630-649	2	4.9	742	8.5	642	631	2838	113	1913	88
650-669	1	2.4	744	.	667	653	3200	.	2175	.
670-689	3	7.3	762	5.6	681	665	3192	60	1708	131
690-709	3	7.3	750	1.7	698	677	3392	101	1725	90
710-729	7	17.1	751	4.5	716	701	3750	92	2143	164
730-749	7	17.1	747	1.3	735	720	4132	146	2411	142
750-769	3	7.3	750	1.5	758	746	4275	290	2750	188
770-789	4	9.8	750	2.6	779	767	4350	301	2550	204
790-809	1	2.4	751	.	804	801	4725	.	2750	.
830-849	1	2.4	751	.	831	816	5650	.	3500	.
	41	100.0	750	1.4	699	686	3524	143	2100	88

Table 114. Mean number of days in Willow Lake, by 2 cm length intervals, with associated mean upstream and downstream fork lengths and weights for spawning Arctic charr from Nauyuk Lake, upstream 1977.

Length Interval (mm)	N	Percent of Sample	TIME IN WILLOW L. (days)		FORK LENGTH (mm)		WEIGHT (g)			
					Downstream	Upstream	Downstream		Upstream	
			Mean	St.Err.	Mean	Mean	Mean	St.Err.	Mean	St.Err.
One year residents										
510-529	1	0.7	381	.	524	527	1400	.	1250	.
530-549	2	1.3	383	4.5	542	541	1563	38	1275	50
550-569	8	5.3	381	1.2	564	586	1778	31	1338	32
570-589	19	12.7	383	2.1	581	576	1864	49	1416	32
590-609	23	15.3	379	1.5	599	595	2090	31	1584	35
610-629	37	24.7	377	1.0	620	613	2241	25	1674	22
630-649	14	9.3	378	1.9	636	631	2409	37	1820	40
650-669	14	9.3	378	1.8	660	652	2795	42	2046	66
670-689	11	7.3	378	2.4	676	673	2889	79	2318	97
690-709	7	4.7	379	2.4	700	700	3318	88	2743	81
710-729	8	5.3	382	1.6	717	716	3647	63	3019	38
730-749	2	1.3	377	1.0	735	723	3613	88	2938	36
750-769	1	0.7	379	.	769	761	4525	.	3675	.
770-789	2	1.3	388	1.5	774	776	4575	75	3463	163
810-829	1	0.7	389	.	820	817	5300	.	3550	.
	150	100.0	379	0.6	631	628	2456	54	1885	46
Two year resident										
670-689	1	100.0	735	.	686	685	3050	.	2930	.

Table 115. Mean number of days in Willow Lake, by 2 cm length intervals, with associated mean upstream and downstream fork lengths and weights for spawning Arctic charr from Nauyuk Lake, upstream 1978.

Length Interval (mm)	N	Percent of Sample	TIME IN WILLOW L. (days)		FORK LENGTH (mm)		WEIGHT (g)			
					Downstream	Upstream	Downstream		Upstream	
			Mean	St.Err.	Mean	Mean	Mean	St.Err.	Mean	St.Err.
One year residents										
510-529	2	1.5	356	3.0	522	522	1375	50	1105	15
530-549	11	8.2	356	1.3	541	541	1582	23	1207	25
550-569	18	13.4	354	1.1	561	560	1751	30	1384	28
570-589	30	22.4	356	1.2	580	578	1891	23	1445	29
590-609	17	12.7	355	0.9	600	596	2137	37	1583	31
610-629	17	12.7	356	1.4	617	614	2272	26	1667	34
630-649	6	4.5	357	2.3	643	640	2525	85	1907	92
650-669	8	6.0	353	1.9	661	658	2691	81	2026	110
670-689	6	4.5	361	1.7	681	671	2708	76	1992	142
690-709	4	3.0	358	1.1	703	697	2963	93	2318	116
710-729	5	3.7	356	0.7	716	716	3500	62	2878	68
730-749	8	6.0	356	0.7	739	730	3691	109	2754	195
750-769	2	1.5	359	0.5	752	745	4288	38	3460	160
	134	100.0	356	0.4	613	611	2267	56	1725	46
Two year residents										
610-629	1	16.7	721	.	616	605	2325	.	1140	.
670-689	1	16.7	734	.	681	675	3150	.	2060	.
690-709	4	66.7	720	3.5	703	698	3544	77	2185	104
	6	100.0	722	3.2	685	679	3275	206	1990	184

Table 116. Mean number of days in Willow Lake, by 2 cm length intervals, with associated mean upstream and downstream fork lengths and weights for spawning Arctic charr from Nauyuk Lake, upstream 1979. Data from tagged fish leaving Willow Lake in 1980 only (subsequent years not sampled).

Length Interval (mm)	N	Percent of Sample	TIME IN WILLOW L. (days)		FORK LENGTH (mm)		WEIGHT (g)			
					Downstream	Upstream	Downstream		Upstream	
			Mean	St.Err.	Mean	Mean	Mean	St.Err.	Mean	St.Err.
One year residents										
530-549	4	5.4	349	5.9	539	533	1375	38	943	86
550-569	8	10.8	361	2.9	561	554	1583	32	1095	46
570-589	12	16.2	364	3.3	581	574	1685	34	1164	33
590-609	9	12.2	368	3.6	598	591	1941	17	1286	40
610-629	7	9.5	363	4.0	618	611	2156	62	1431	97
630-649	4	5.4	366	2.2	640	631	2438	75	1683	109
650-669	7	9.5	371	3.8	660	655	2534	64	1877	163
670-689	7	9.5	368	3.1	681	674	2904	89	2034	137
690-709	3	4.1	361	2.0	698	698	3110	145	2610	114
710-729	9	12.2	365	3.2	720	715	3353	87	2527	114
730-749	2	2.7	366	13.0	736	732	3460	30	2650	310
750-769	2	2.7	369	14.5	764	752	3915	45	2920	140
	74	100.0	365	1.2	633	627	2338	84	1674	74